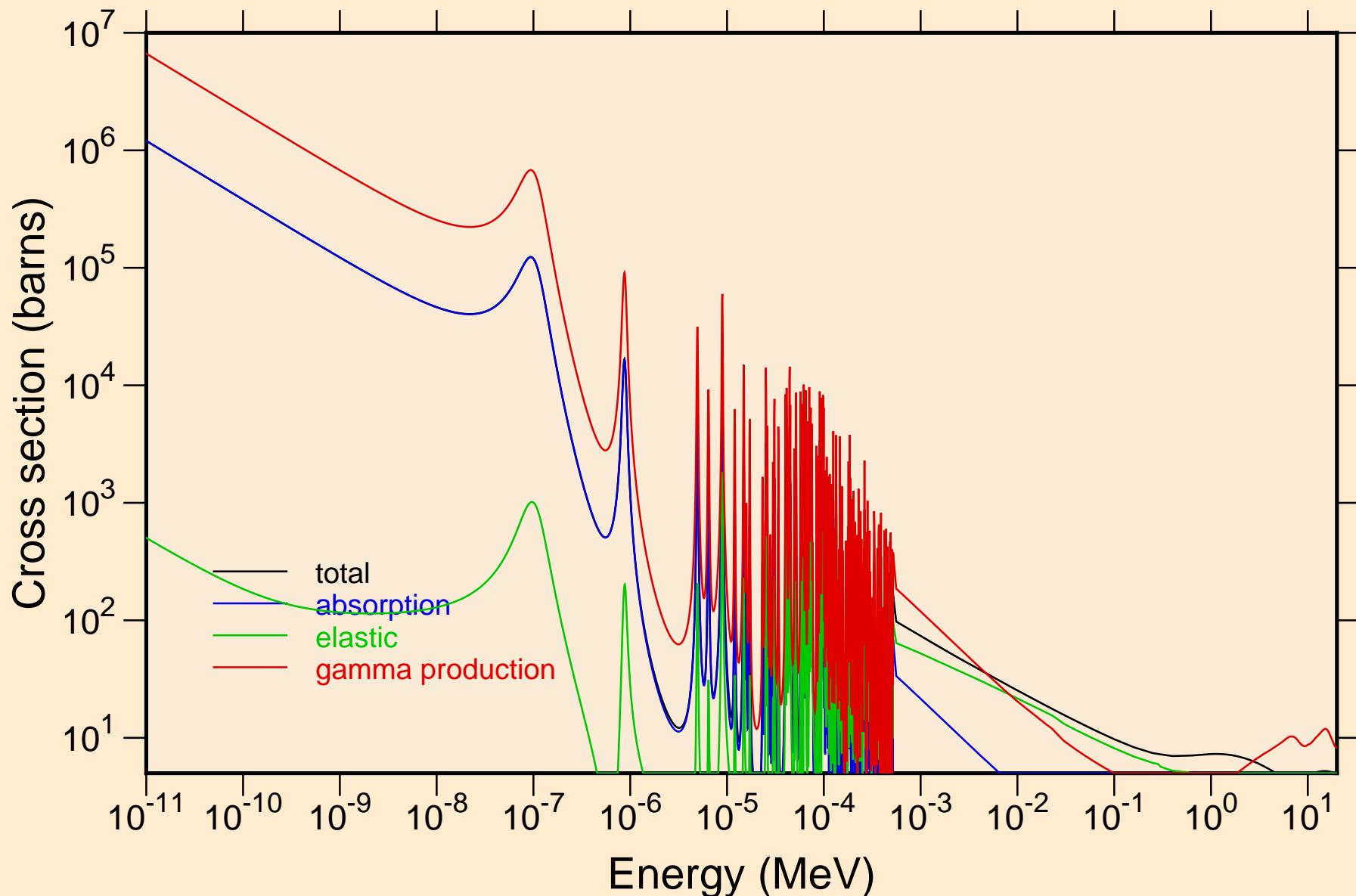
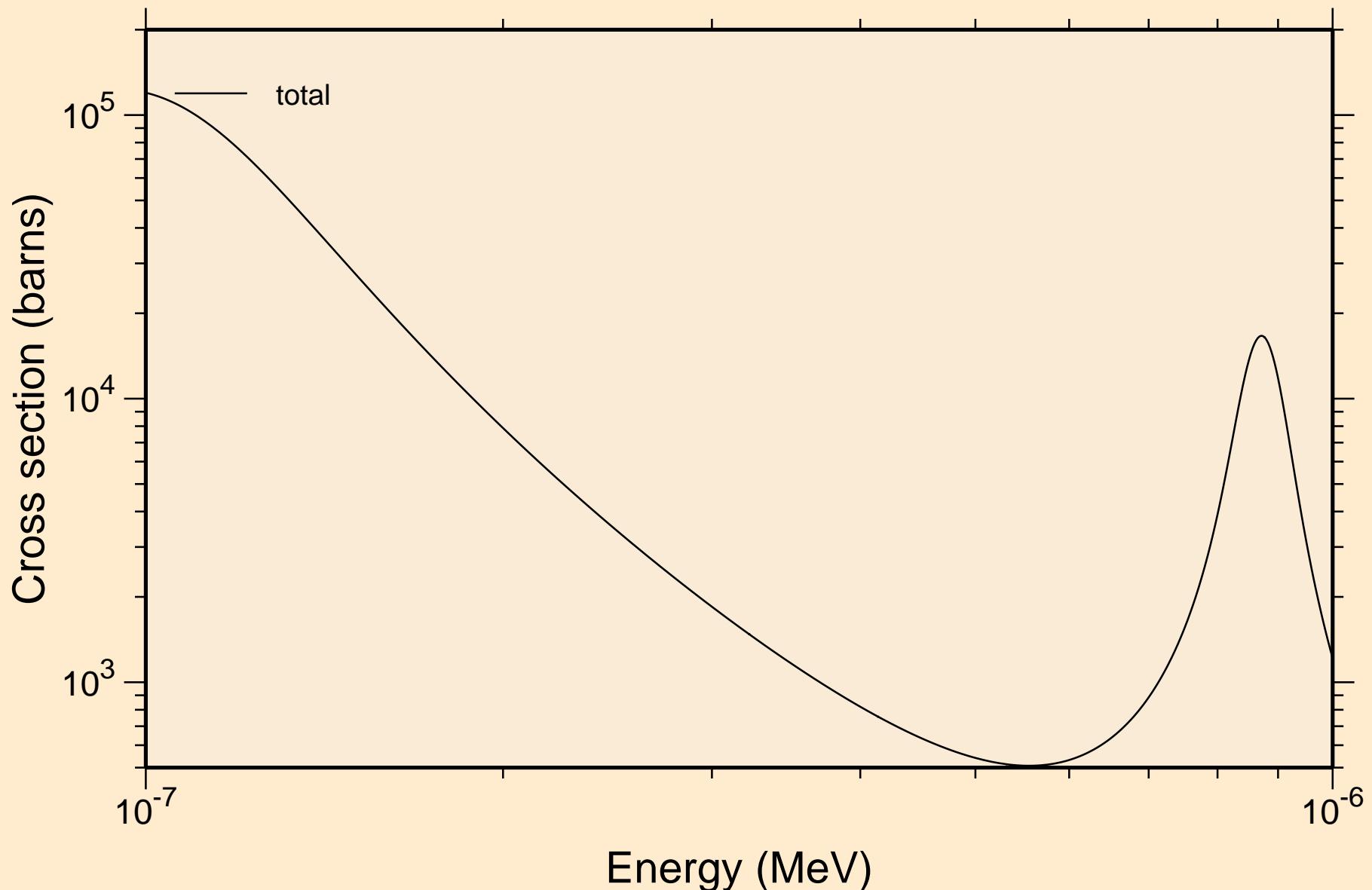


# JENDL-4 SM-149

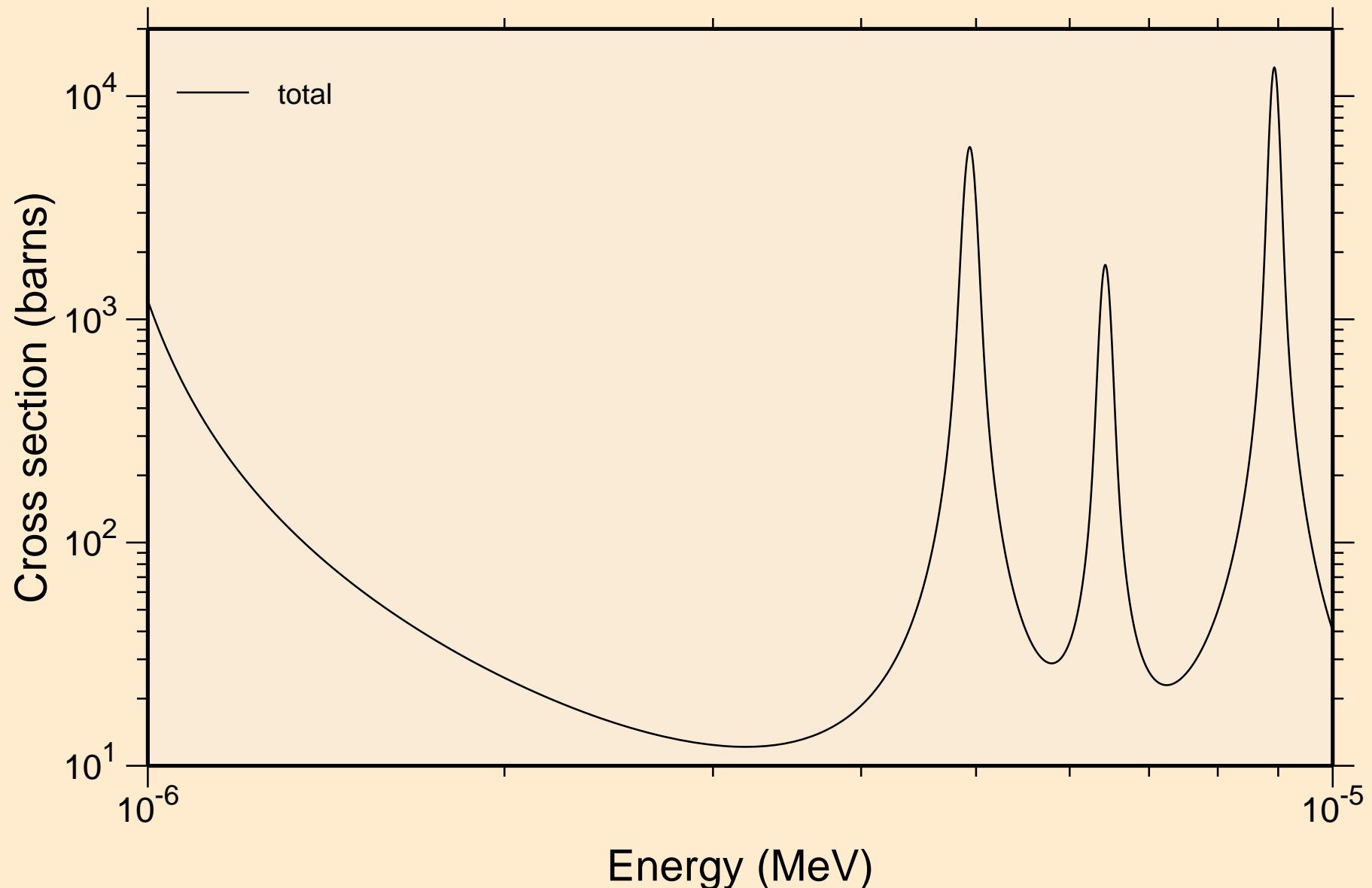
## Principal cross sections



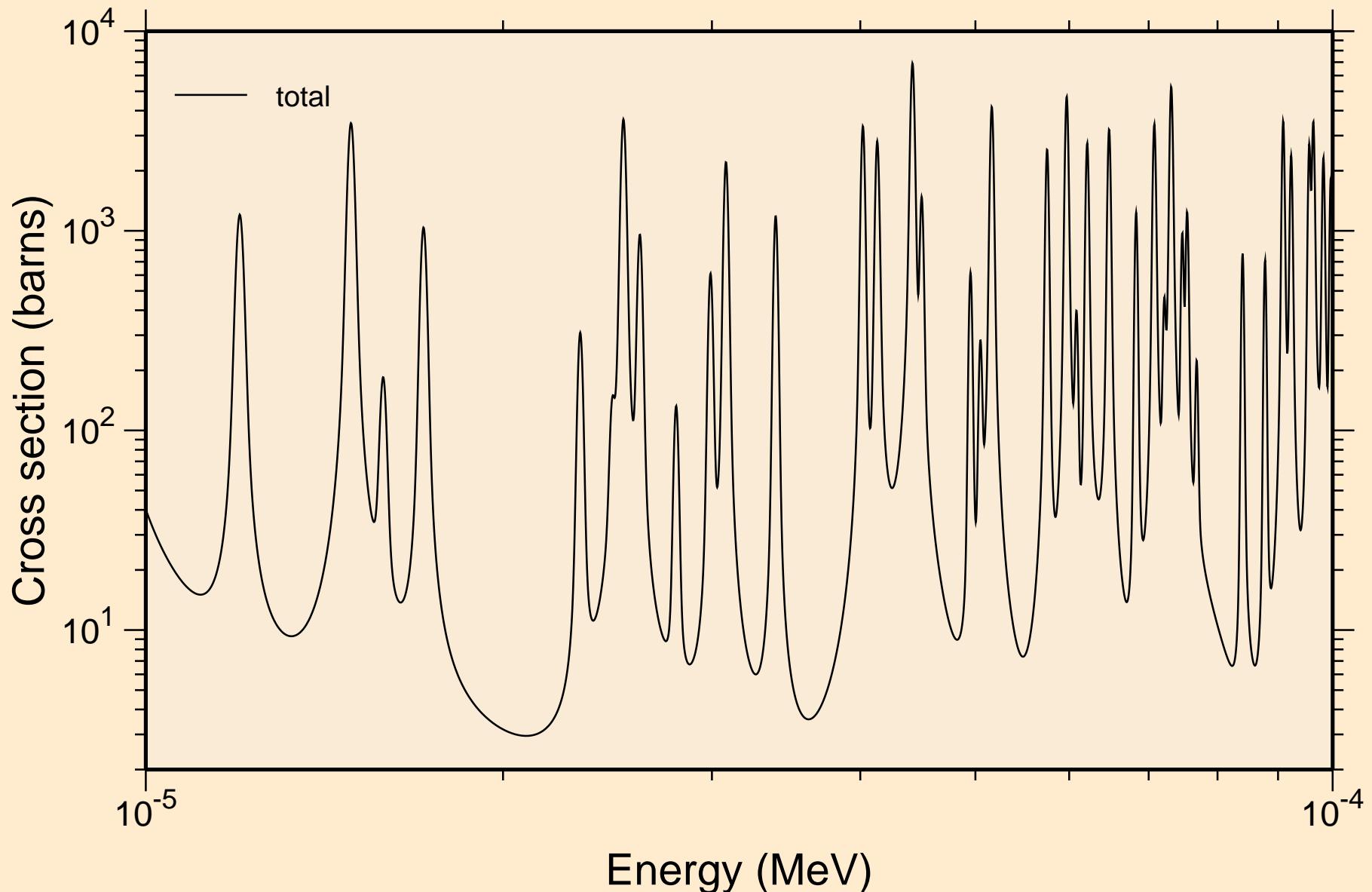
JENDL-4 SM-149  
resonance total cross section



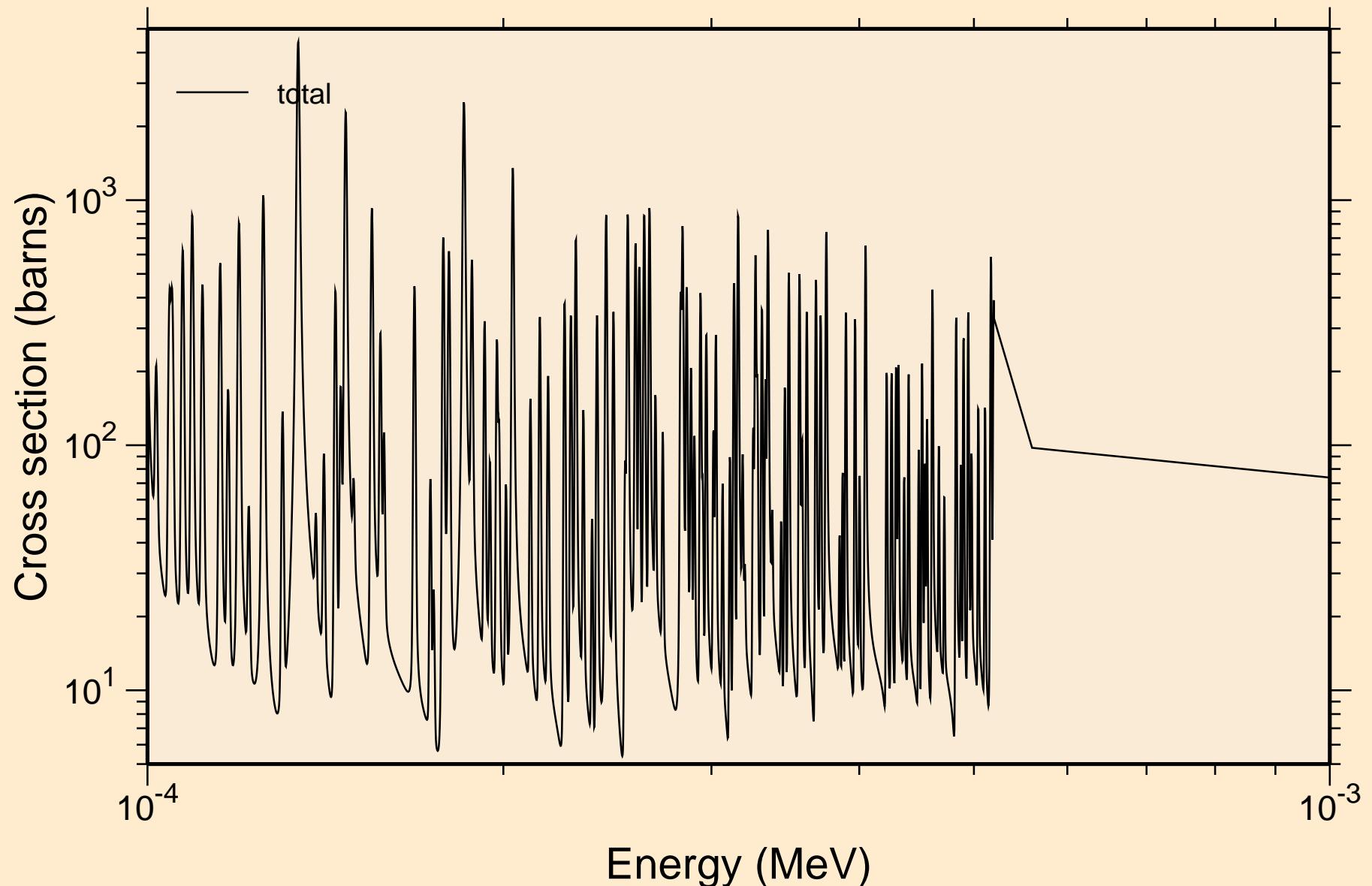
JENDL-4 SM-149  
resonance total cross section



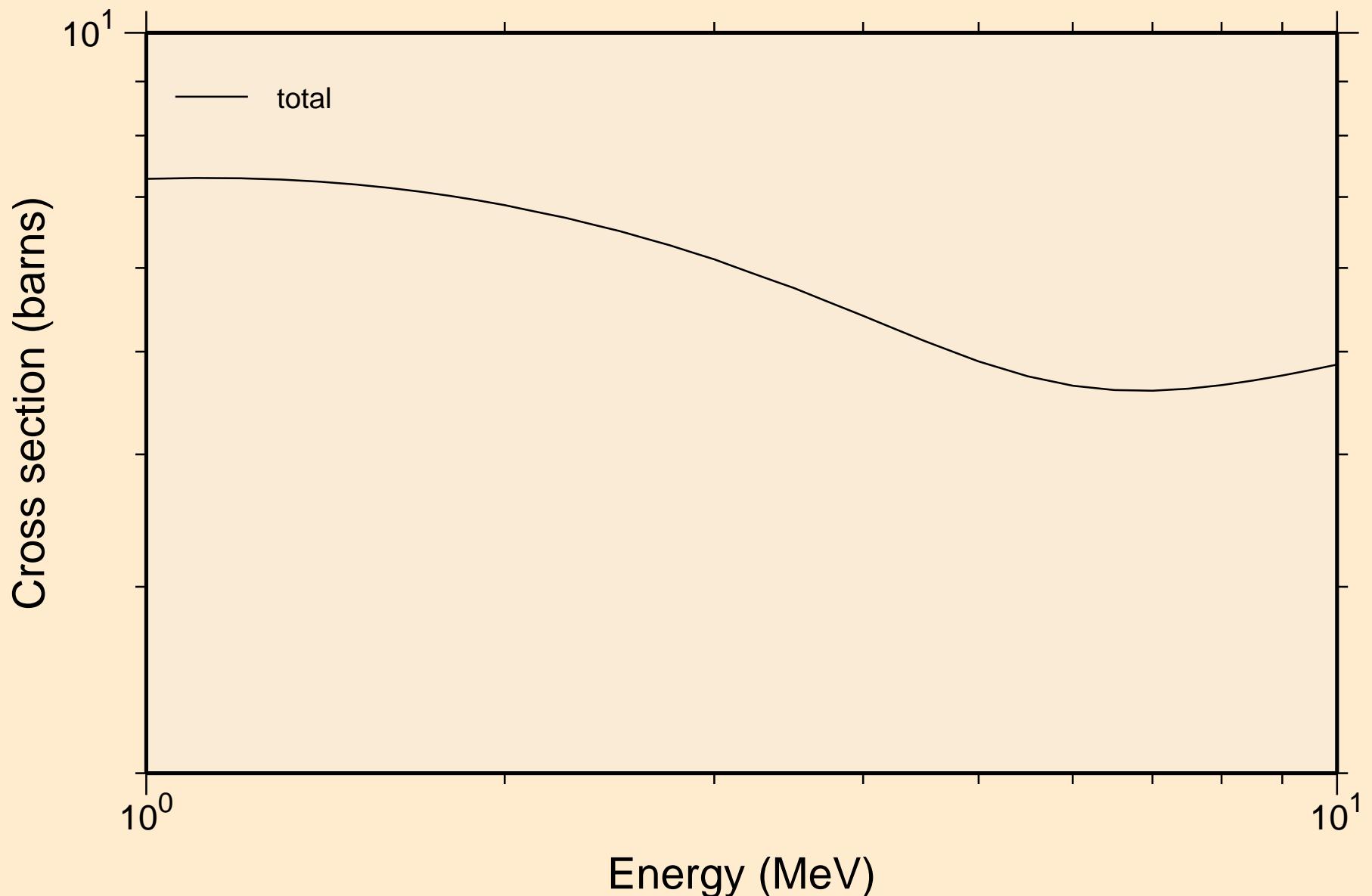
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resonance total cross section



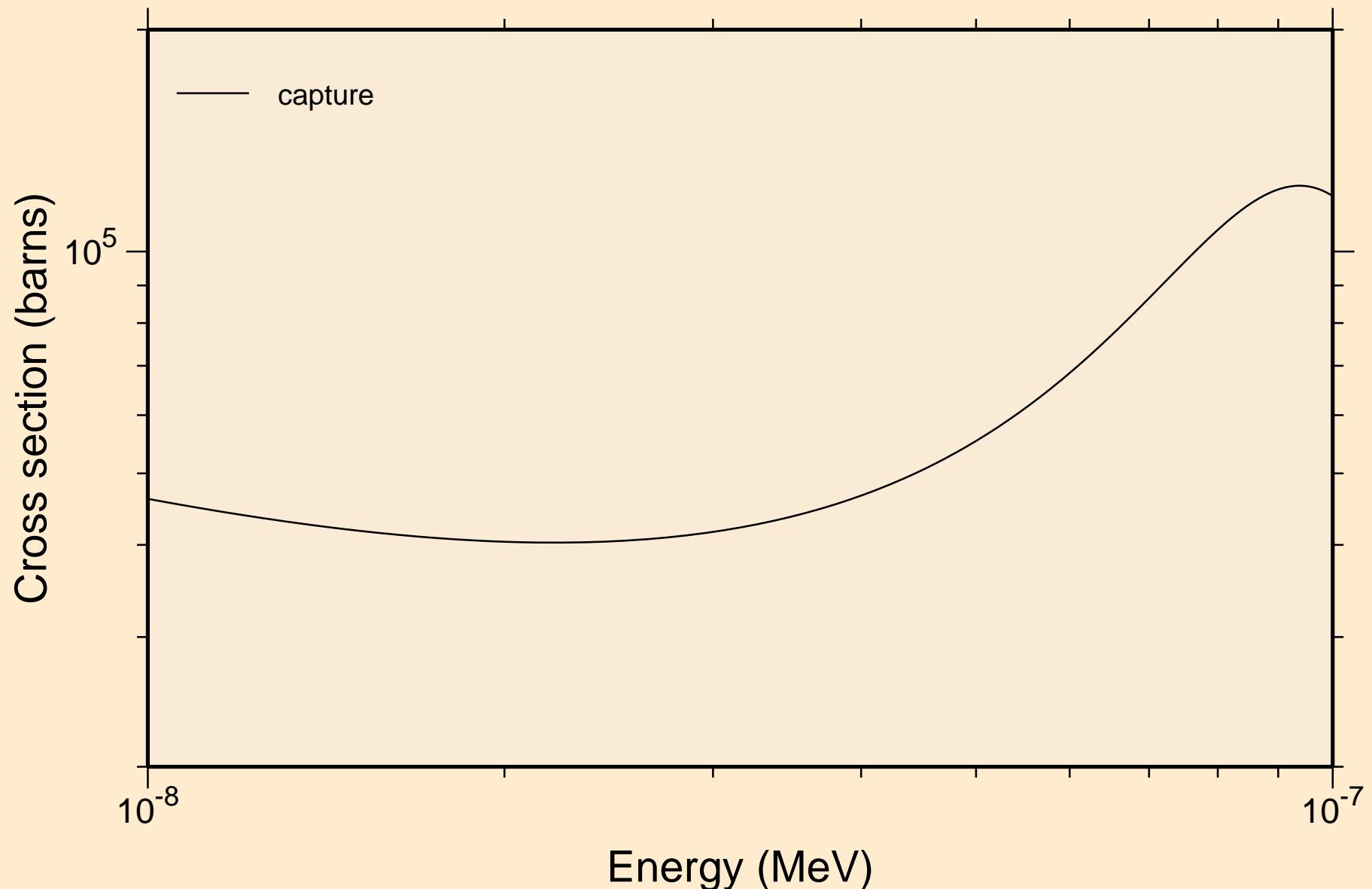
JENDL-4 SM-149  
resonance total cross section



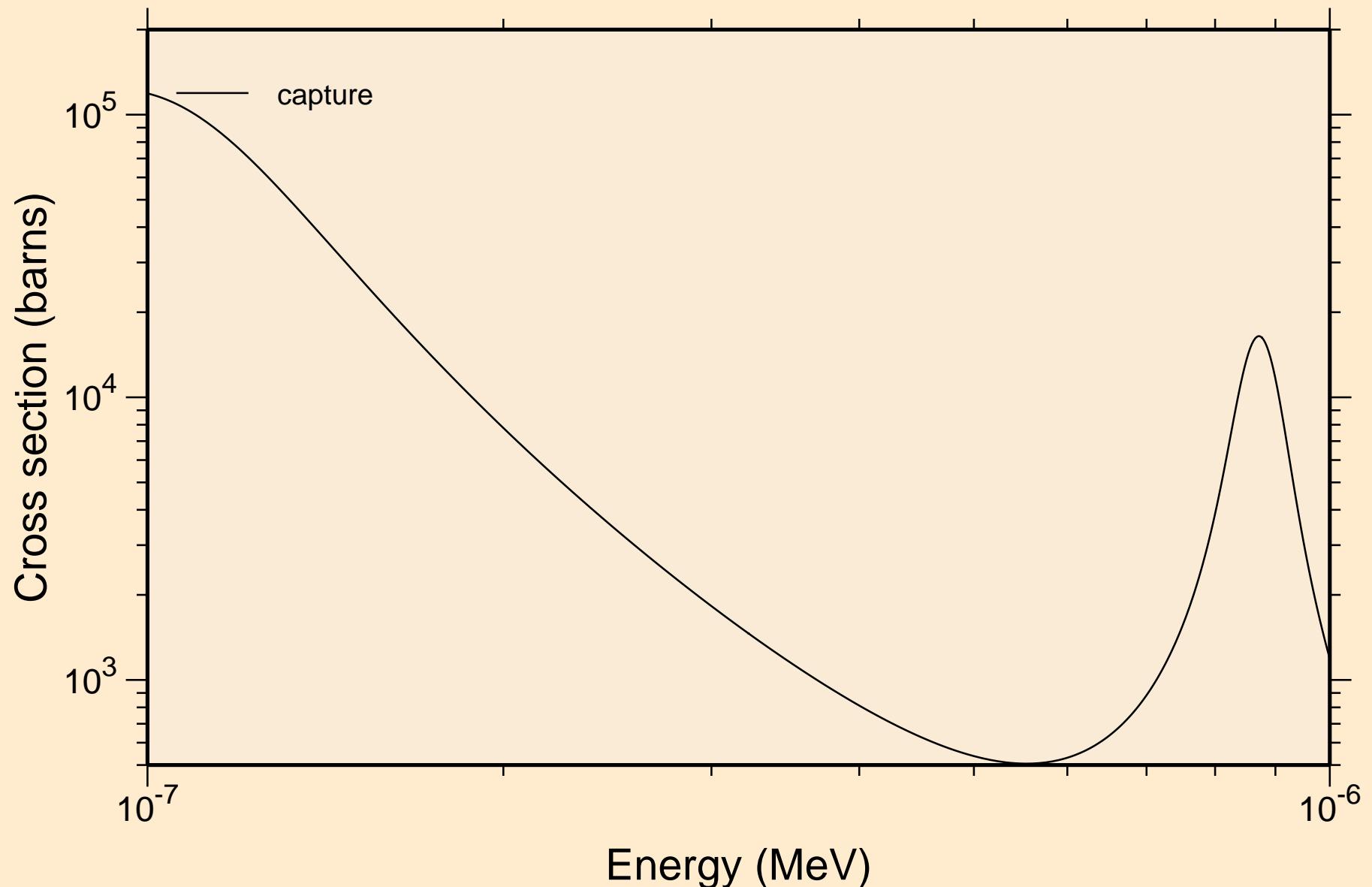
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resonance total cross section



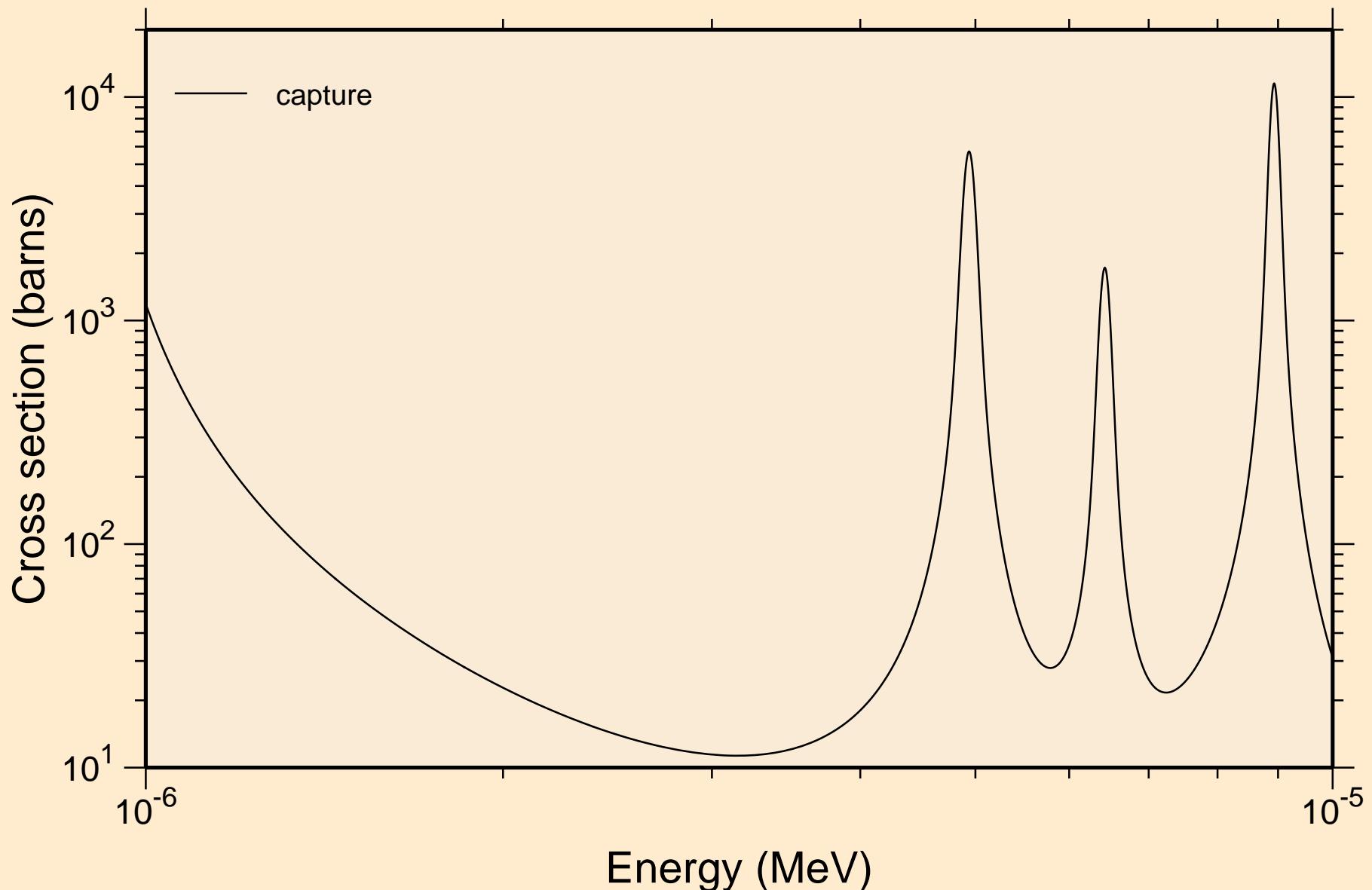
JENDL-4 SM-149  
resonance absorption cross sections



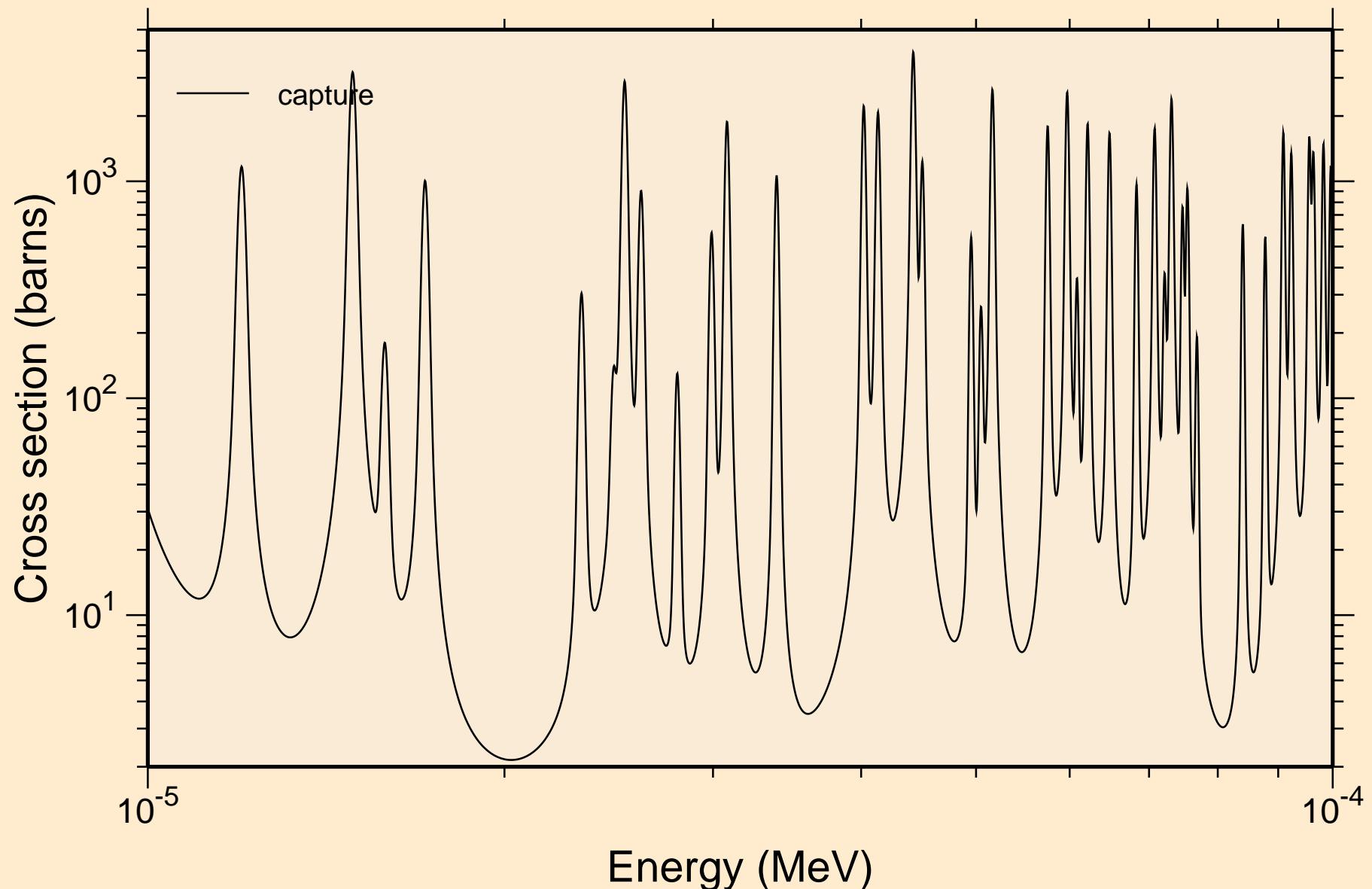
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resonance absorption cross sections



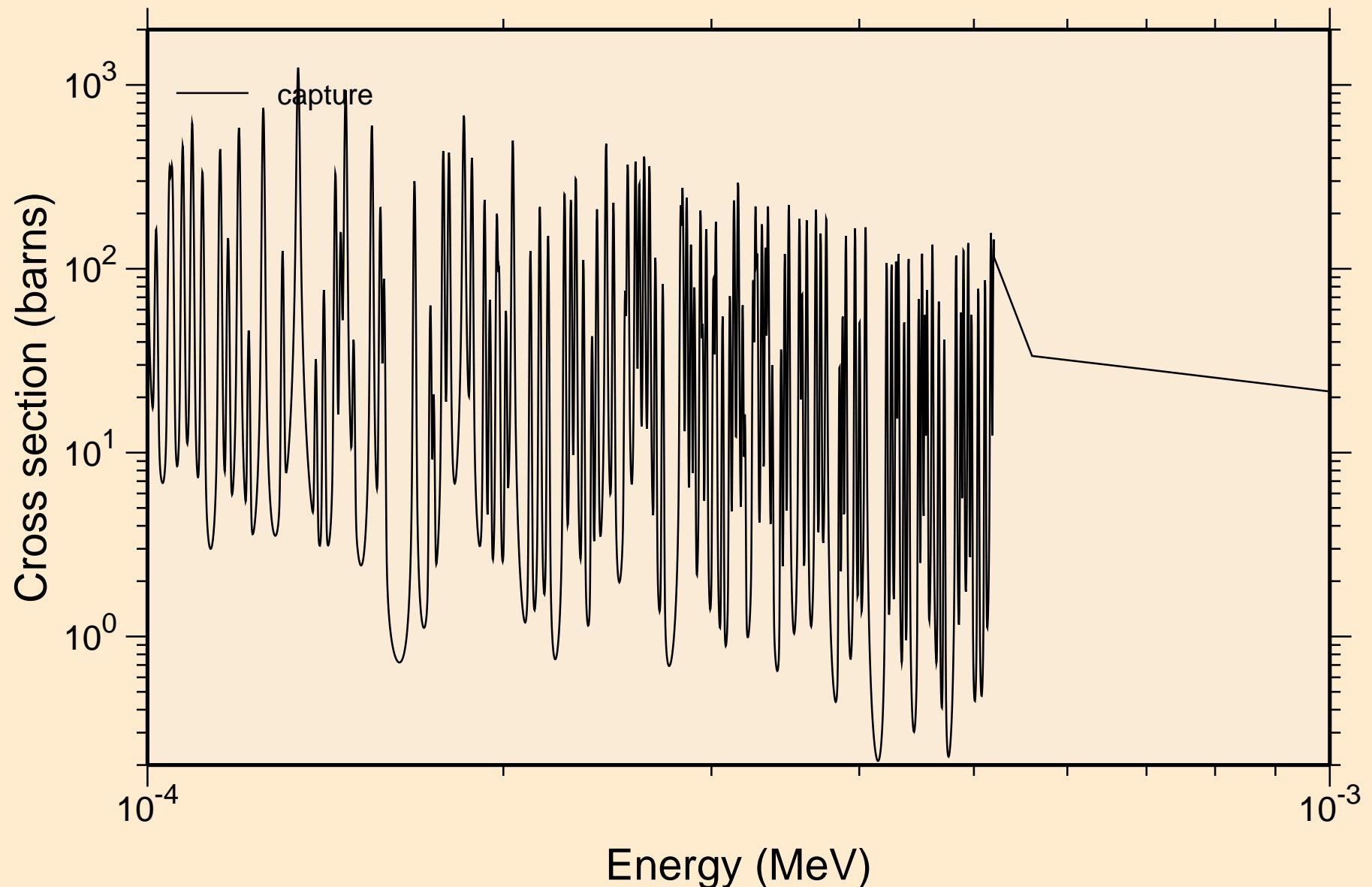
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resonance absorption cross sections



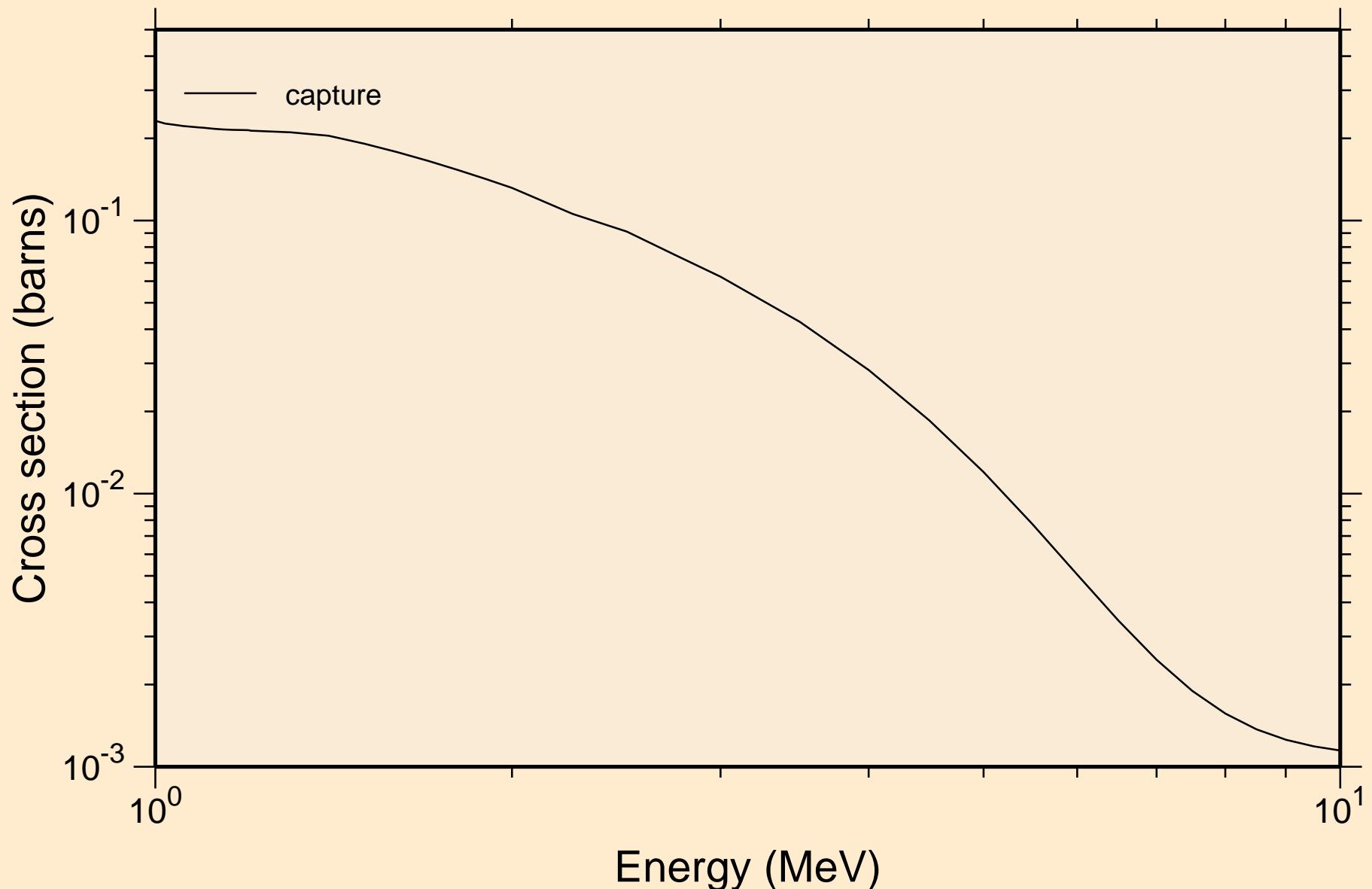
JENDL-4 SM-149  
resonance absorption cross sections



JENDL-4 SM-149  
resonance absorption cross sections

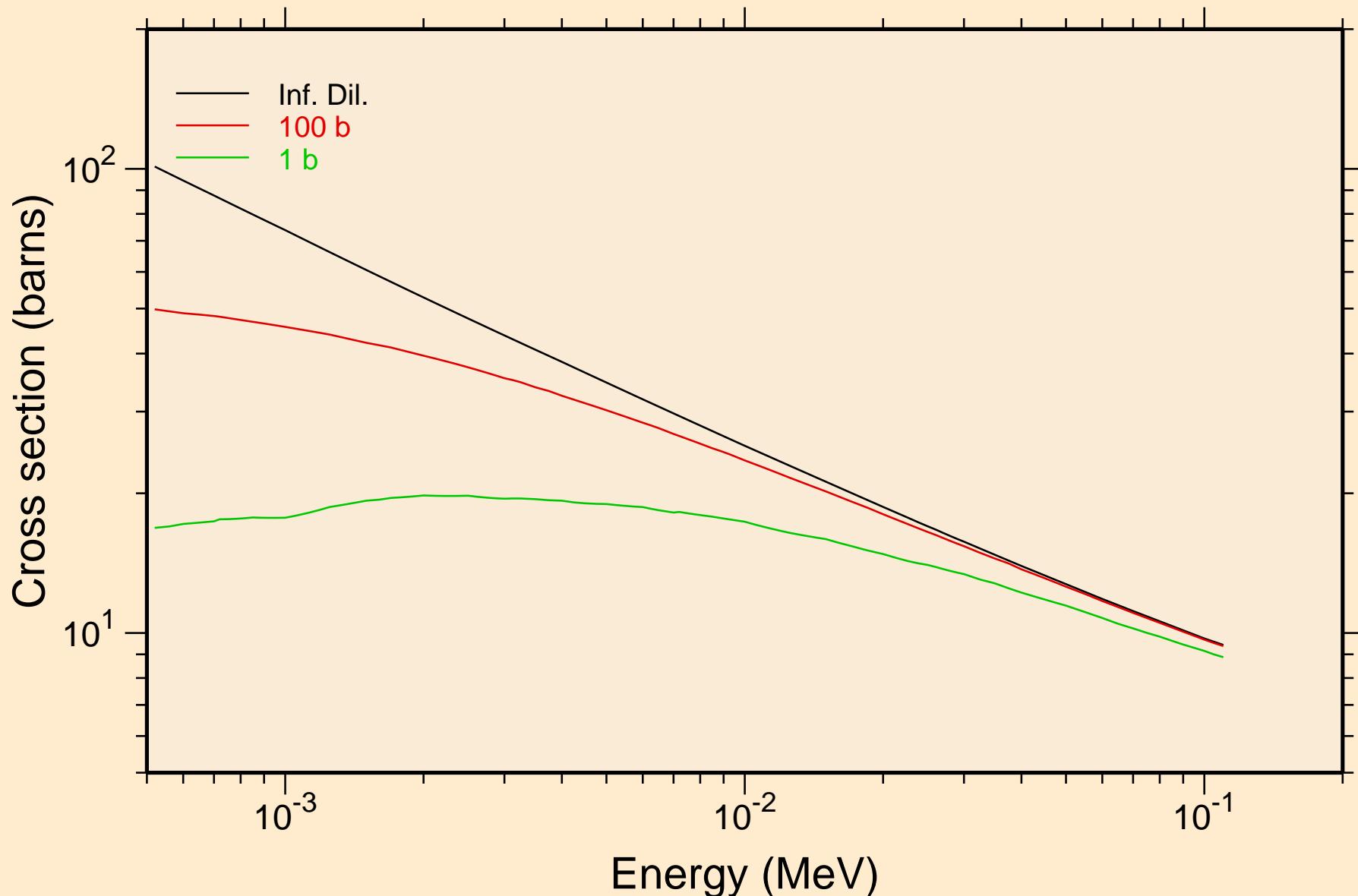


JENDL-4 SM-149  
resonance absorption cross sections



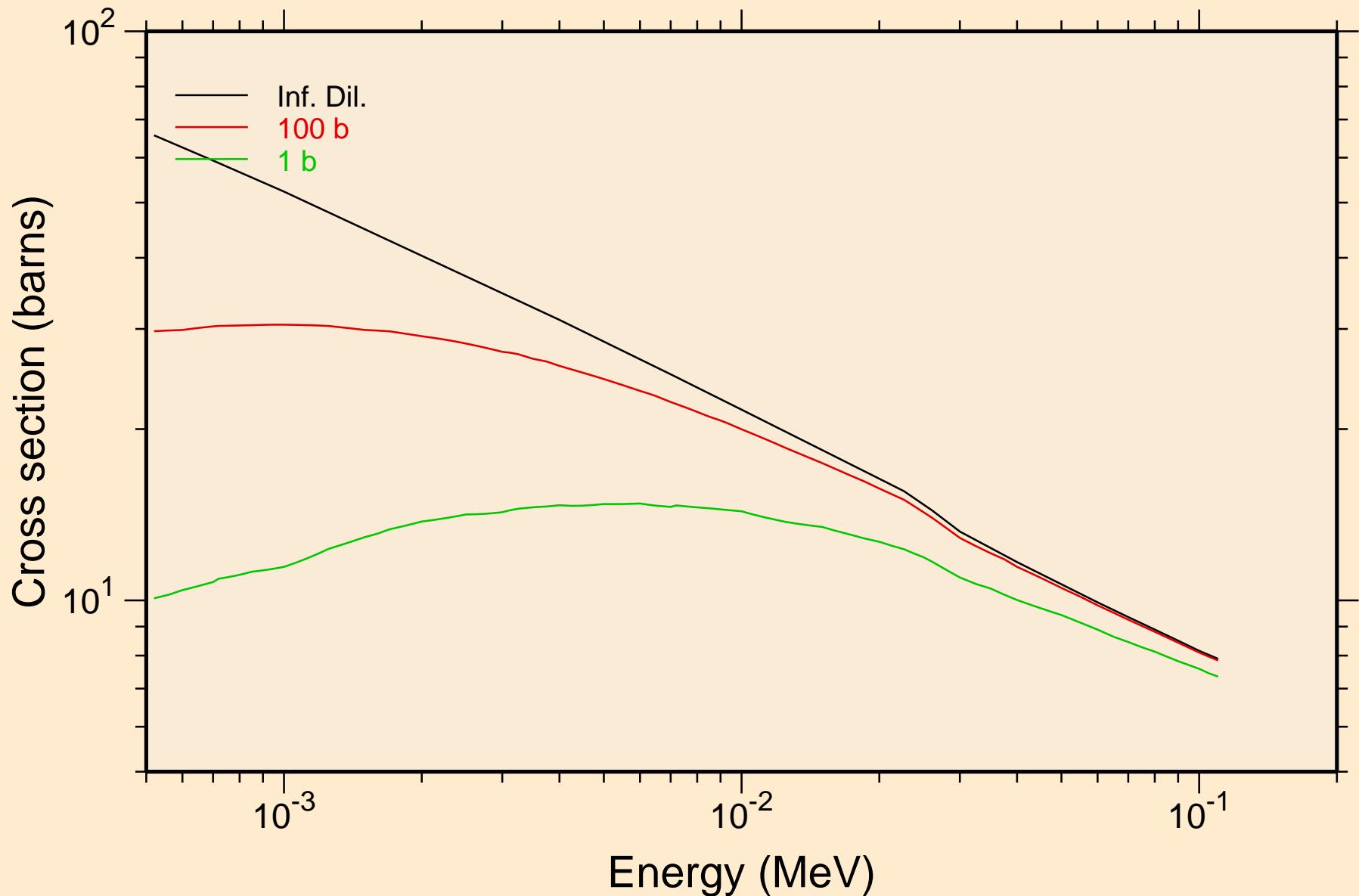
# JENDL-4 SM-149

## UR total cross section



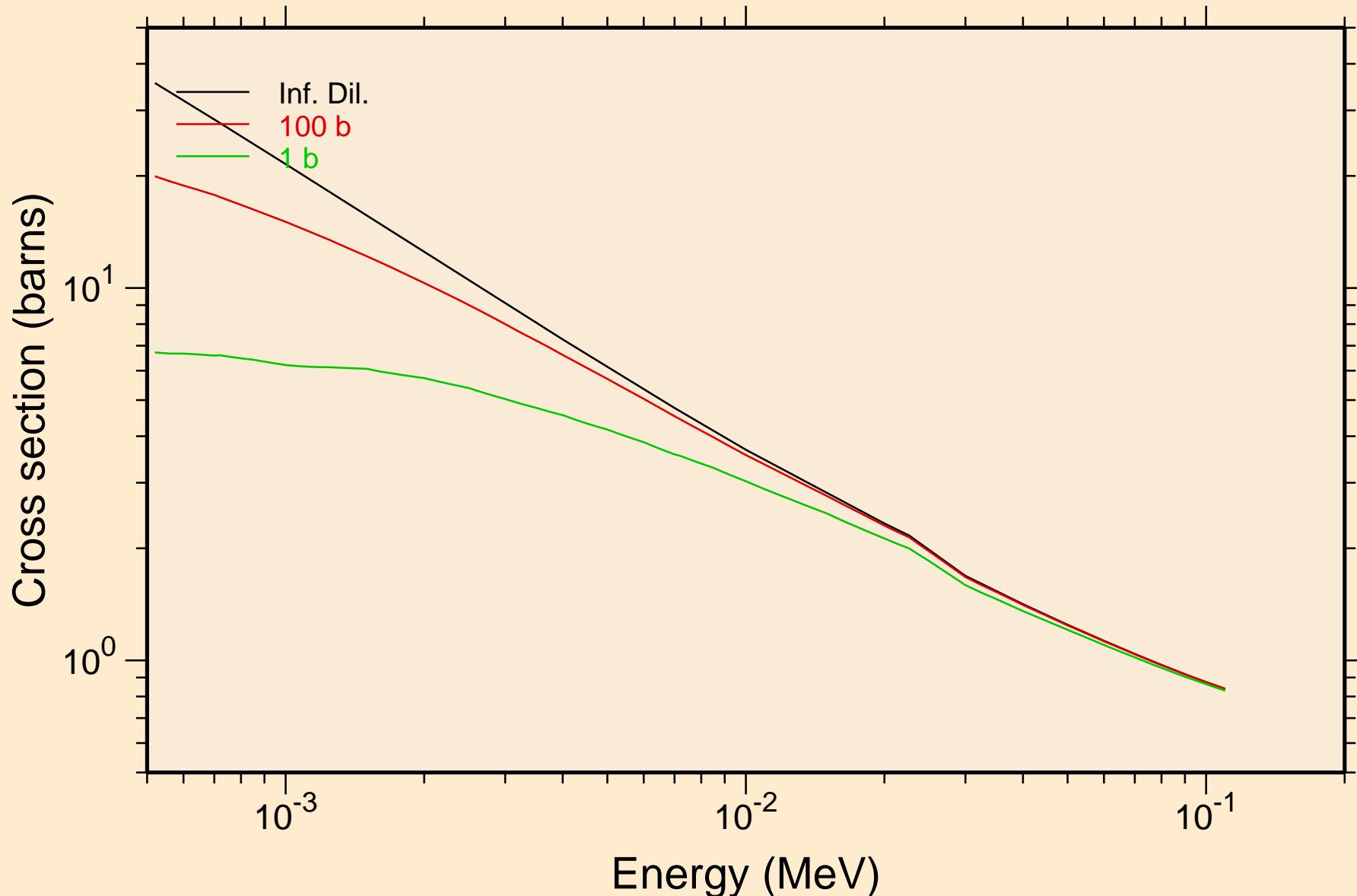
# JENDL-4 SM-149

## UR elastic cross section

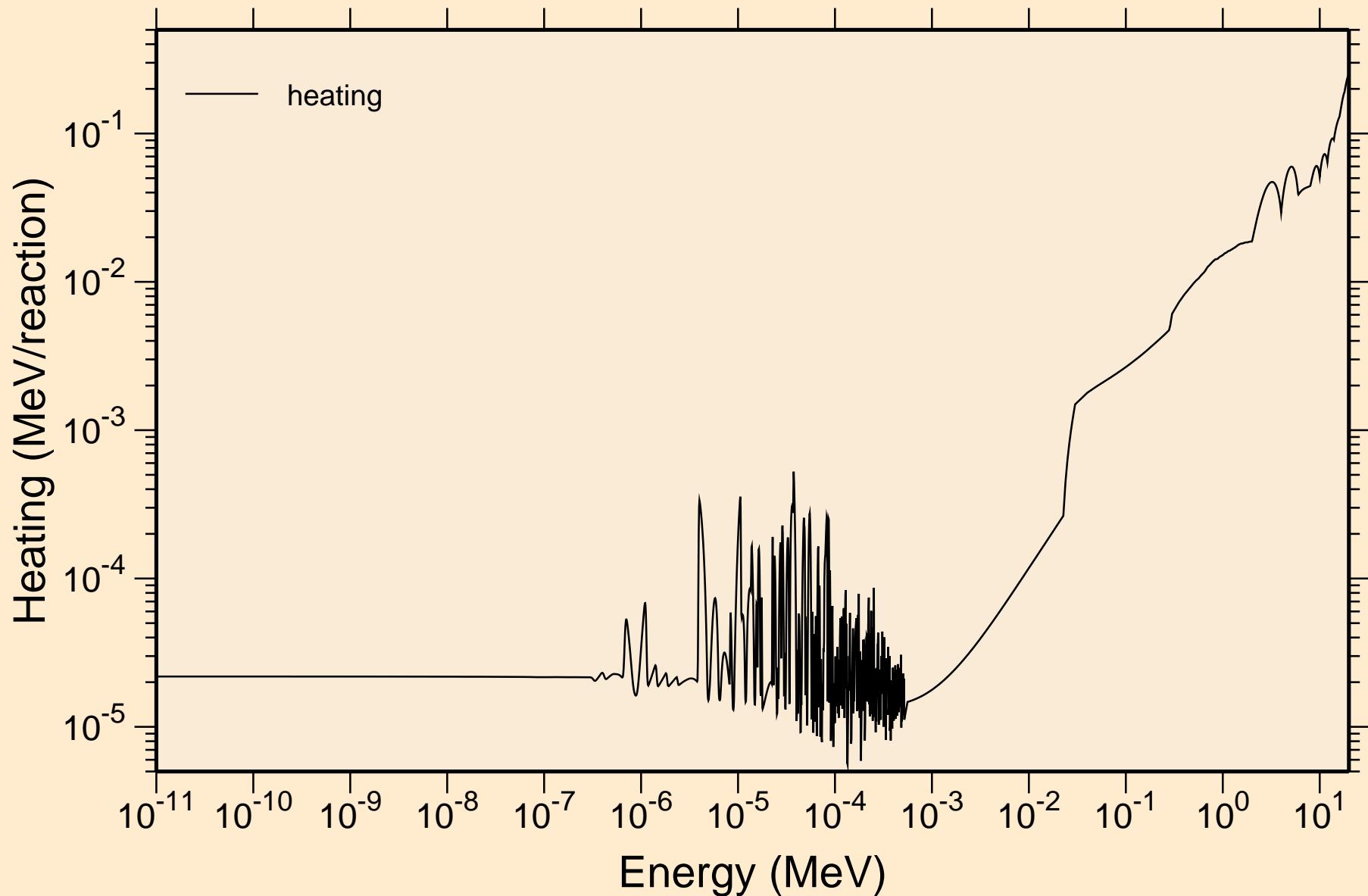


# JENDL-4 SM-149

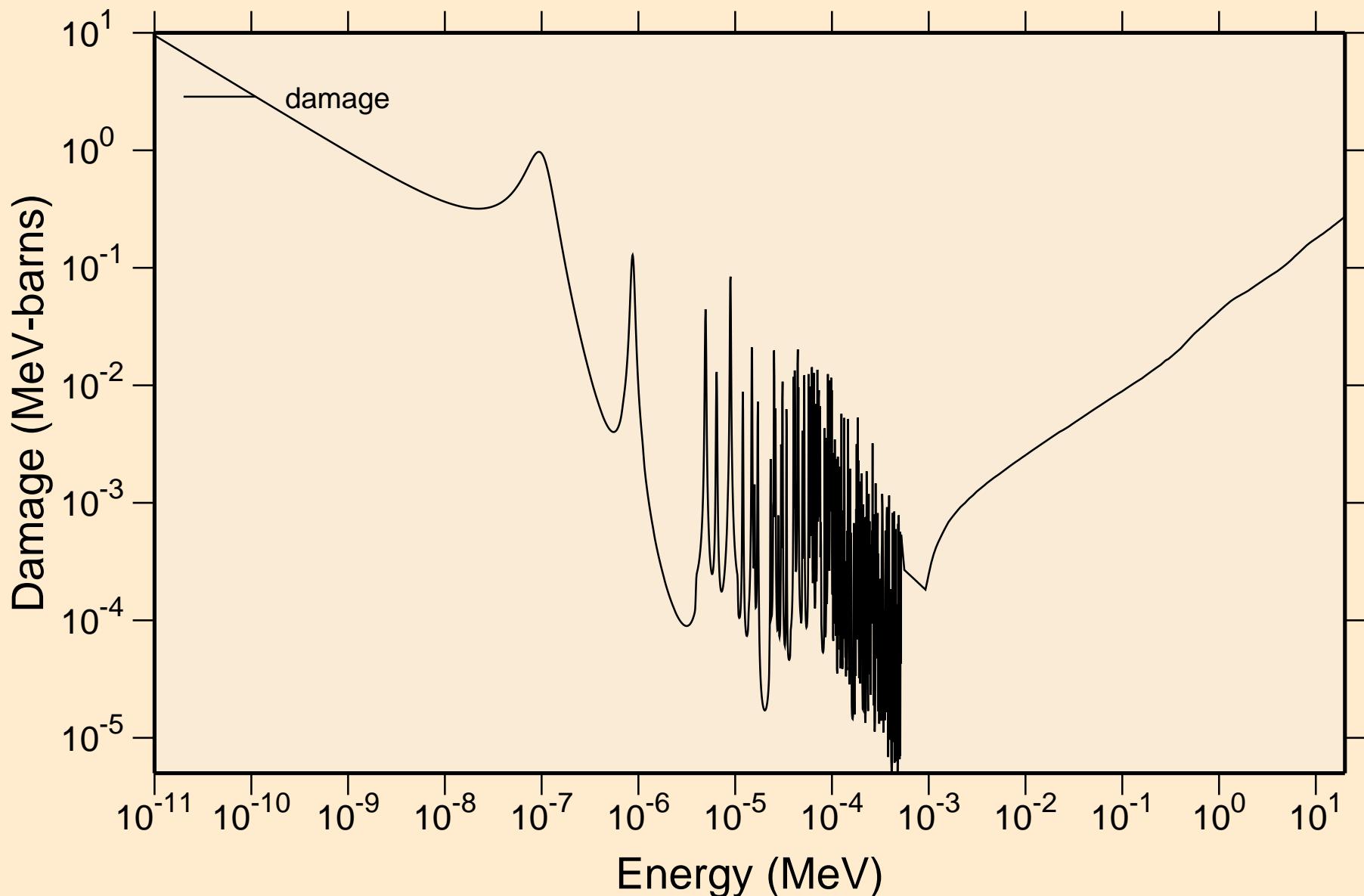
## UR capture cross section



JENDL-4 SM-149  
Heating

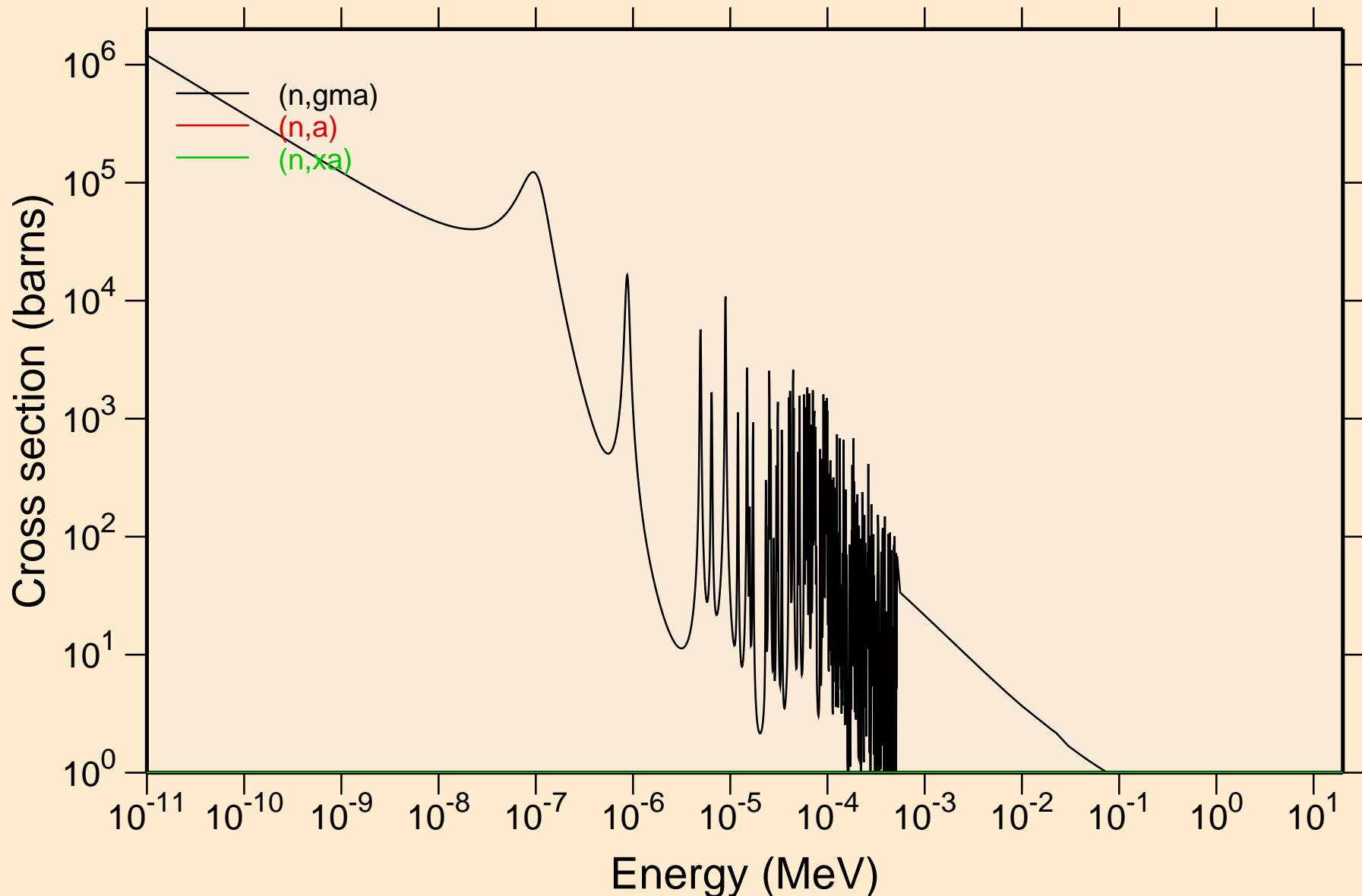


JENDL-4 SM-149  
Damage



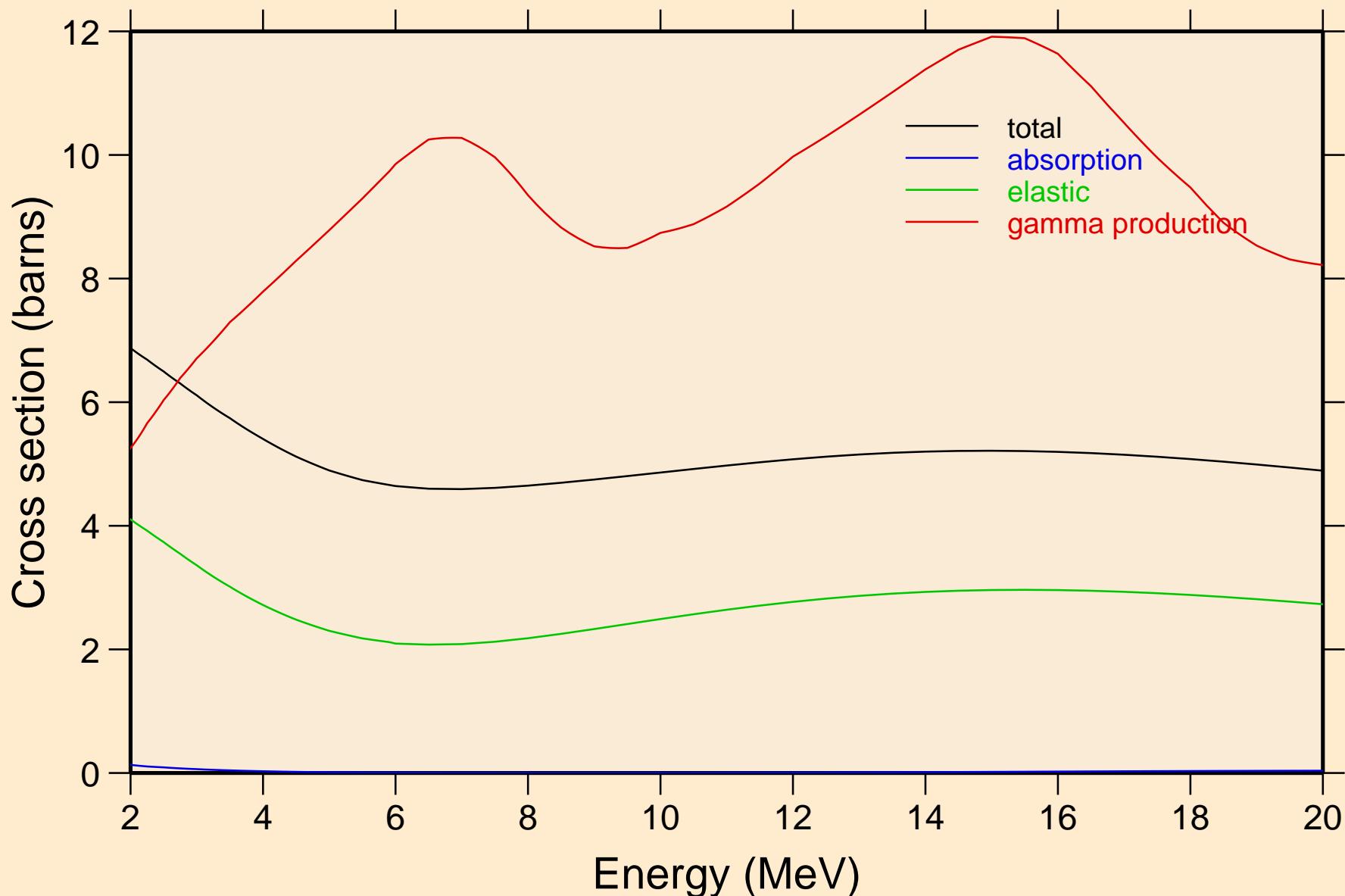
# JENDL-4 SM-149

## Non-threshold reactions

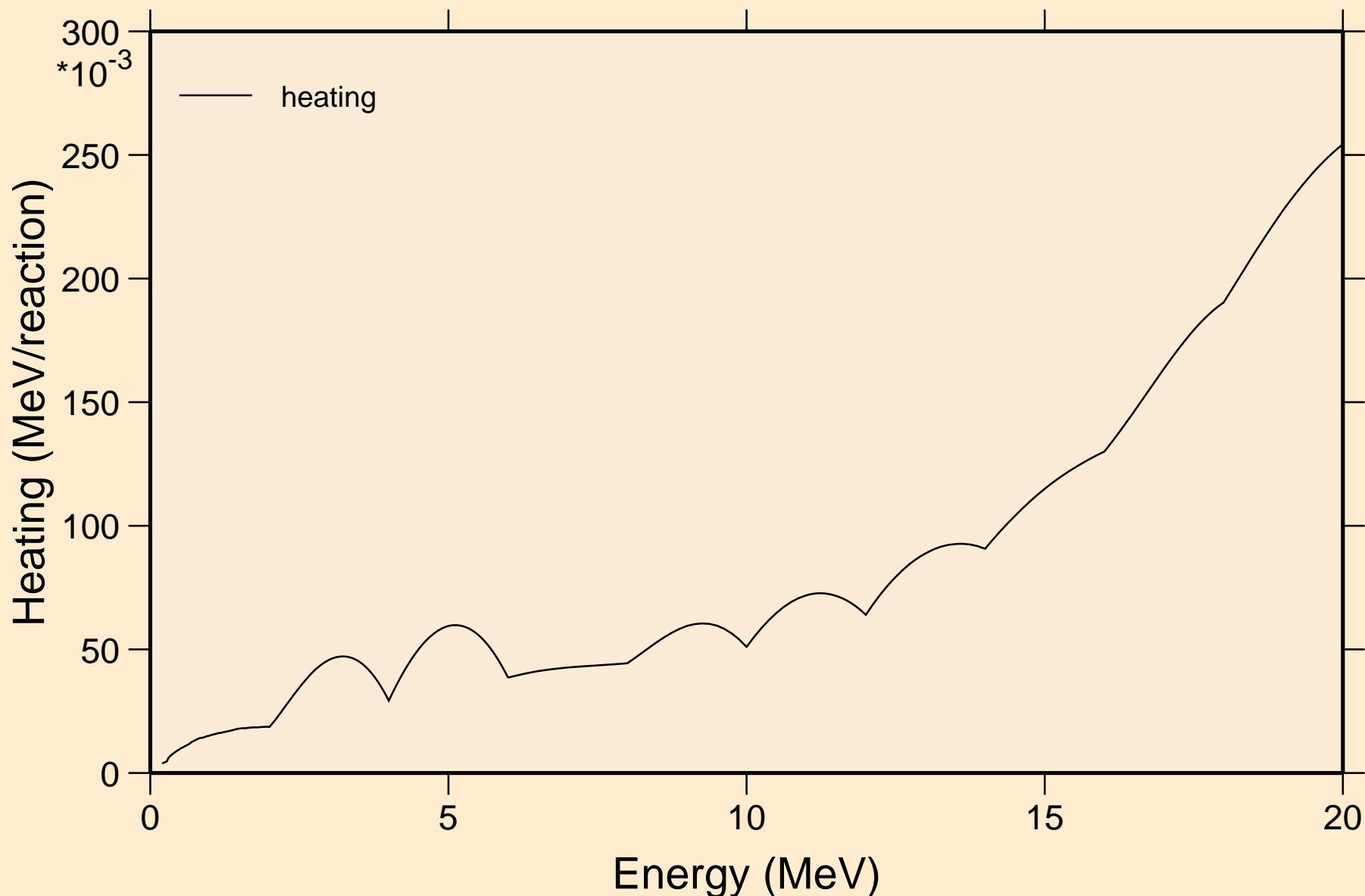


# JENDL-4 SM-149

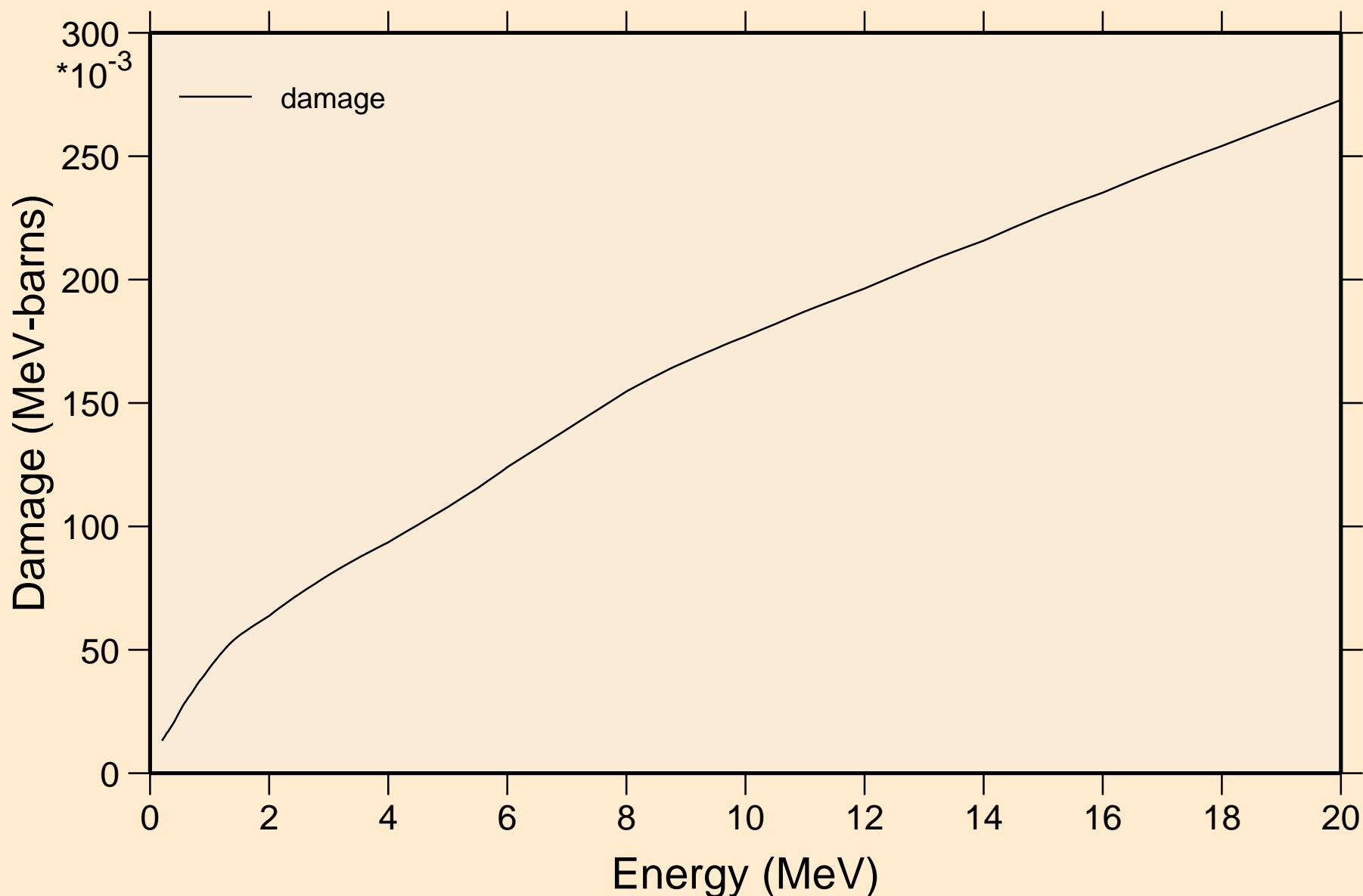
## Principal cross sections



JENDL-4 SM-149  
Heating

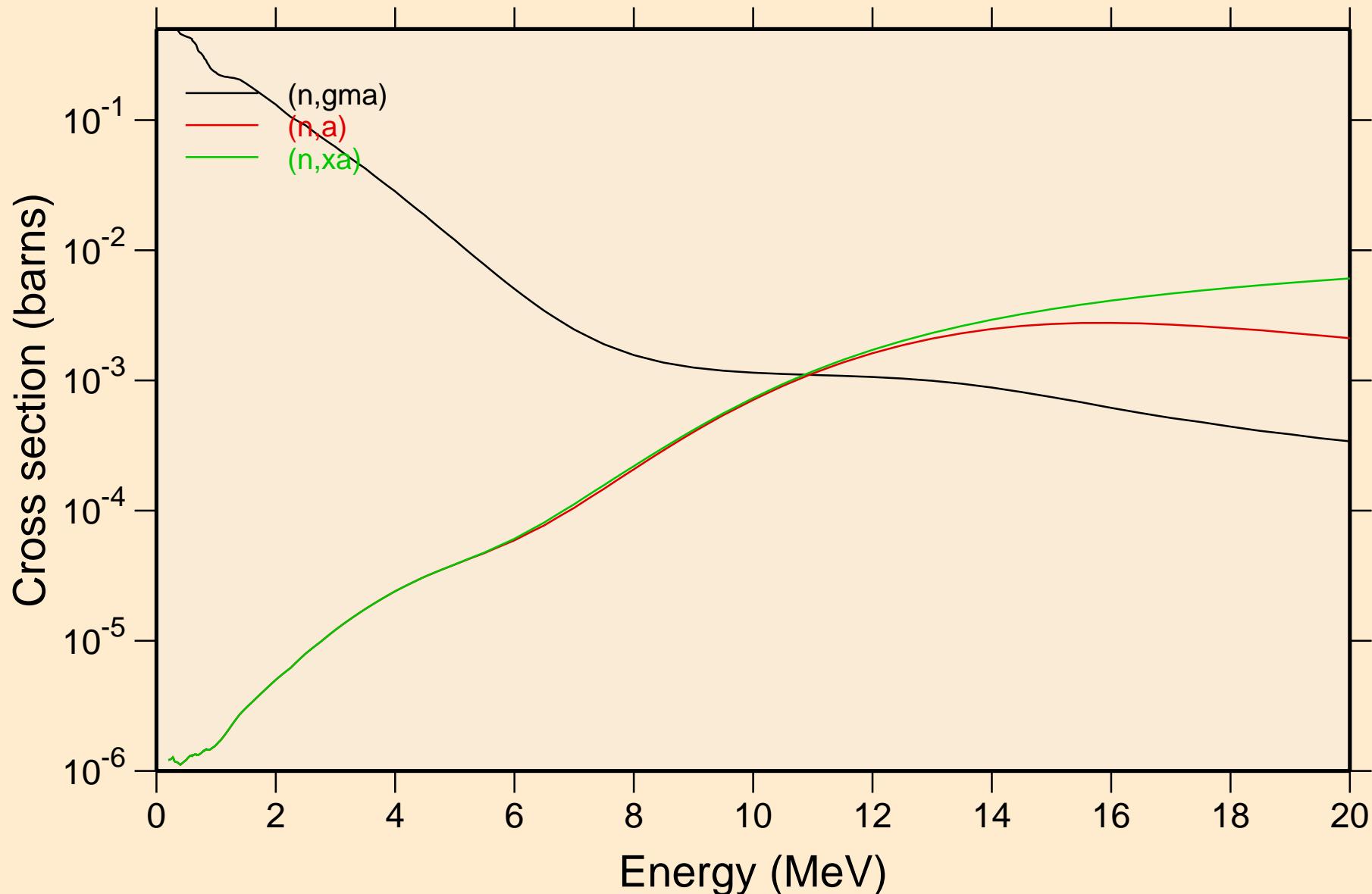


JENDL-4 SM-149  
Damage

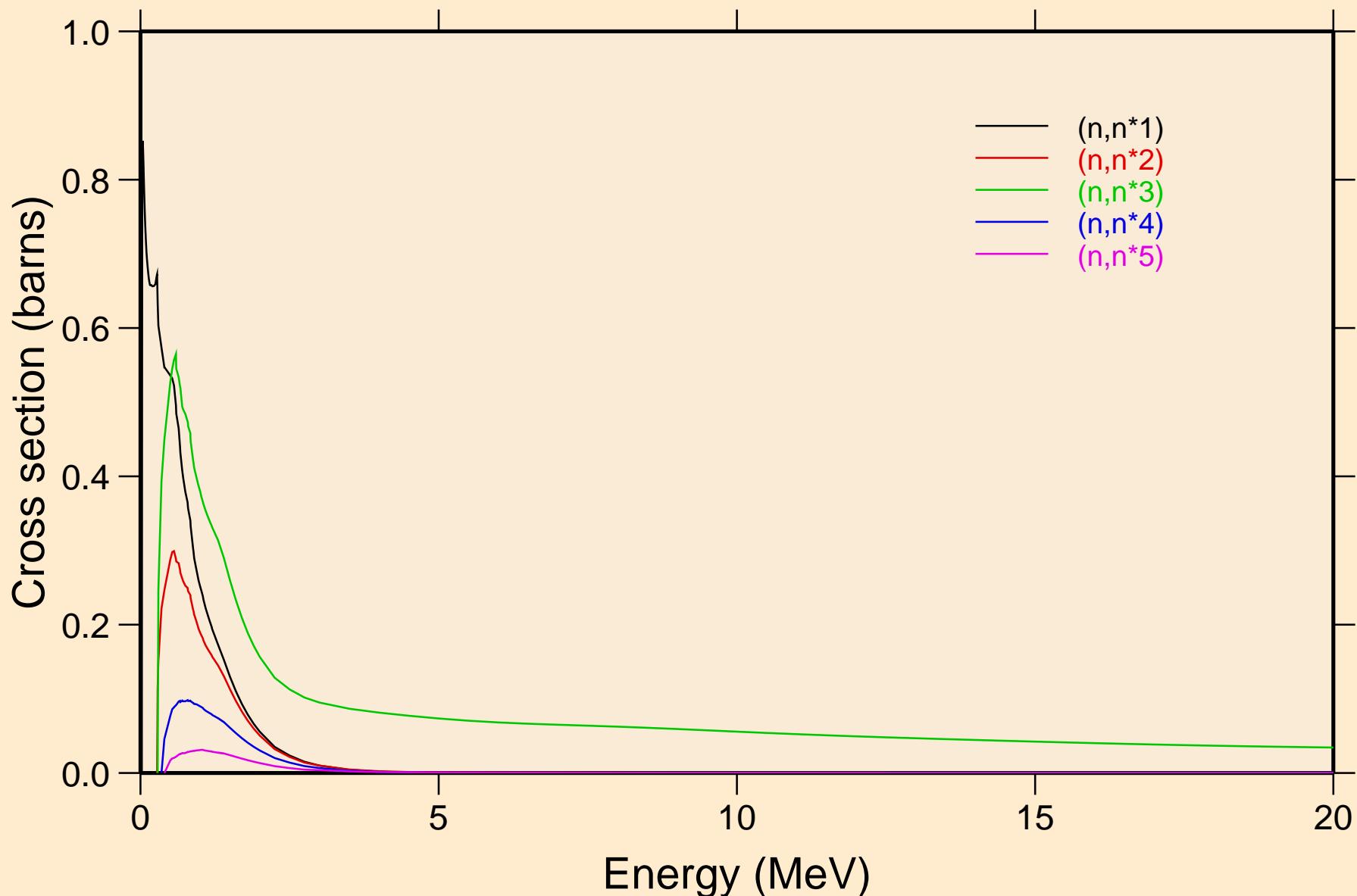


# JENDL-4 SM-149

## Non-threshold reactions

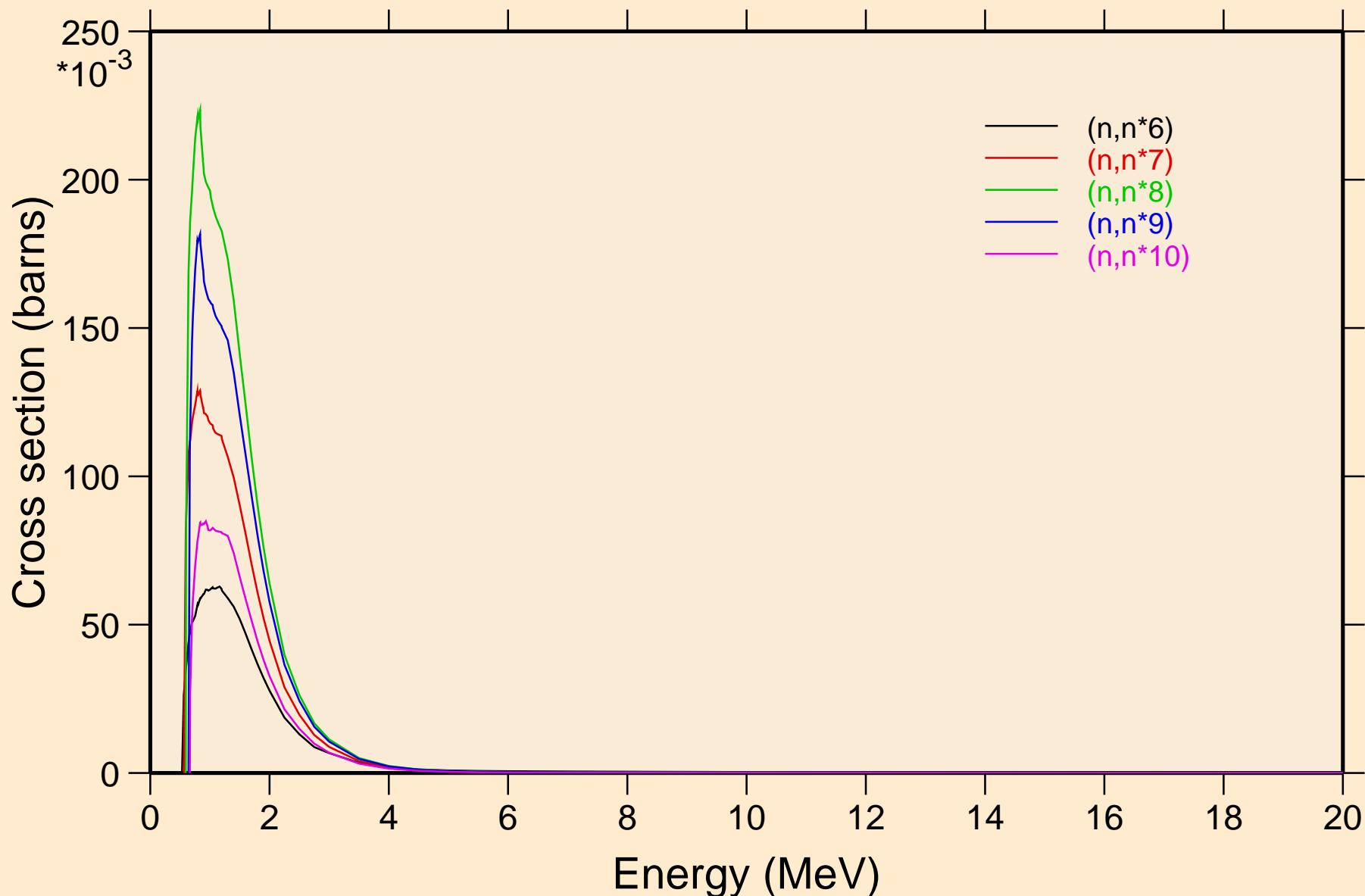


JENDL-4 SM-149  
Inelastic levels



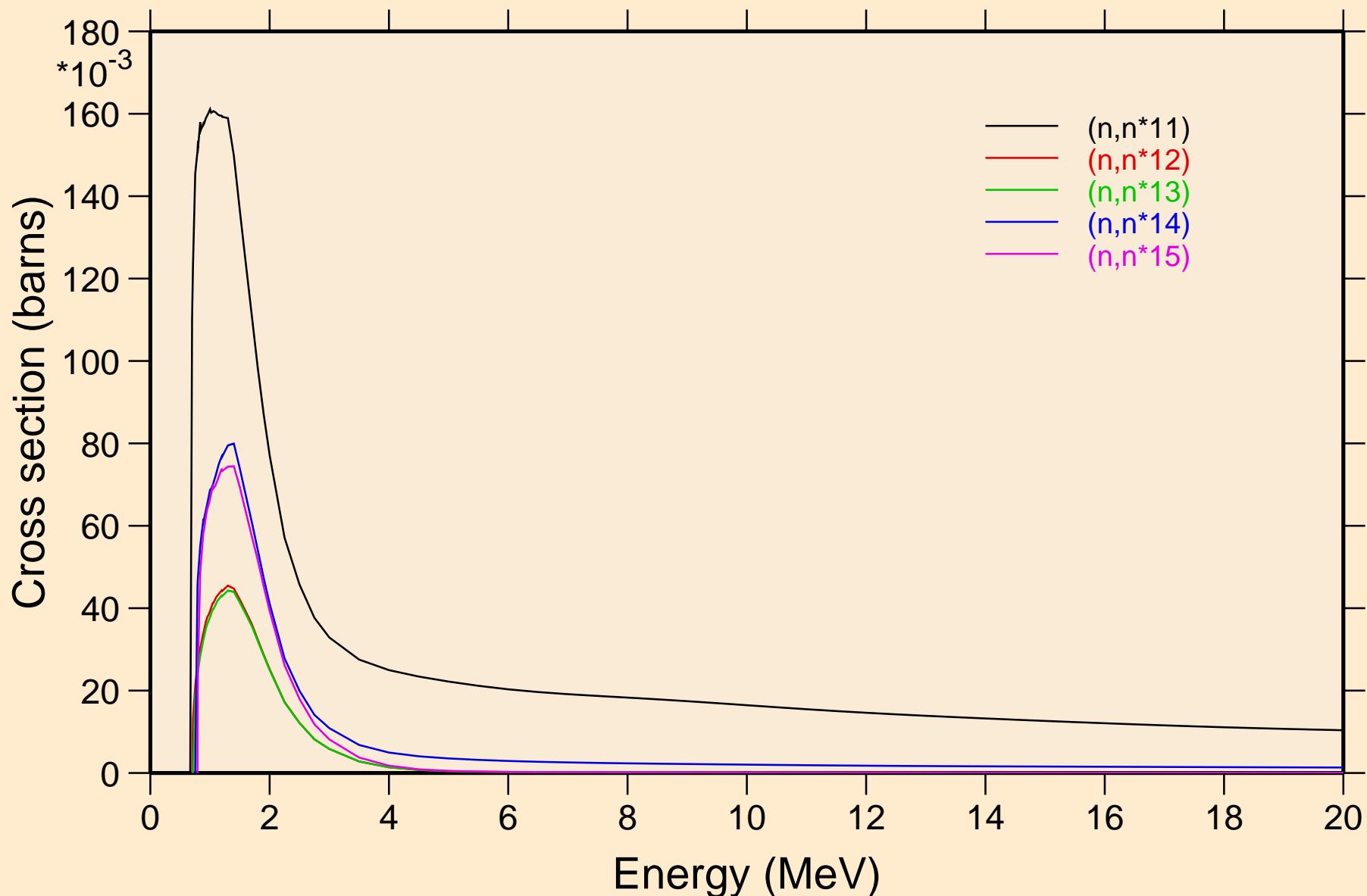
# JENDL-4 SM-149

## Inelastic levels



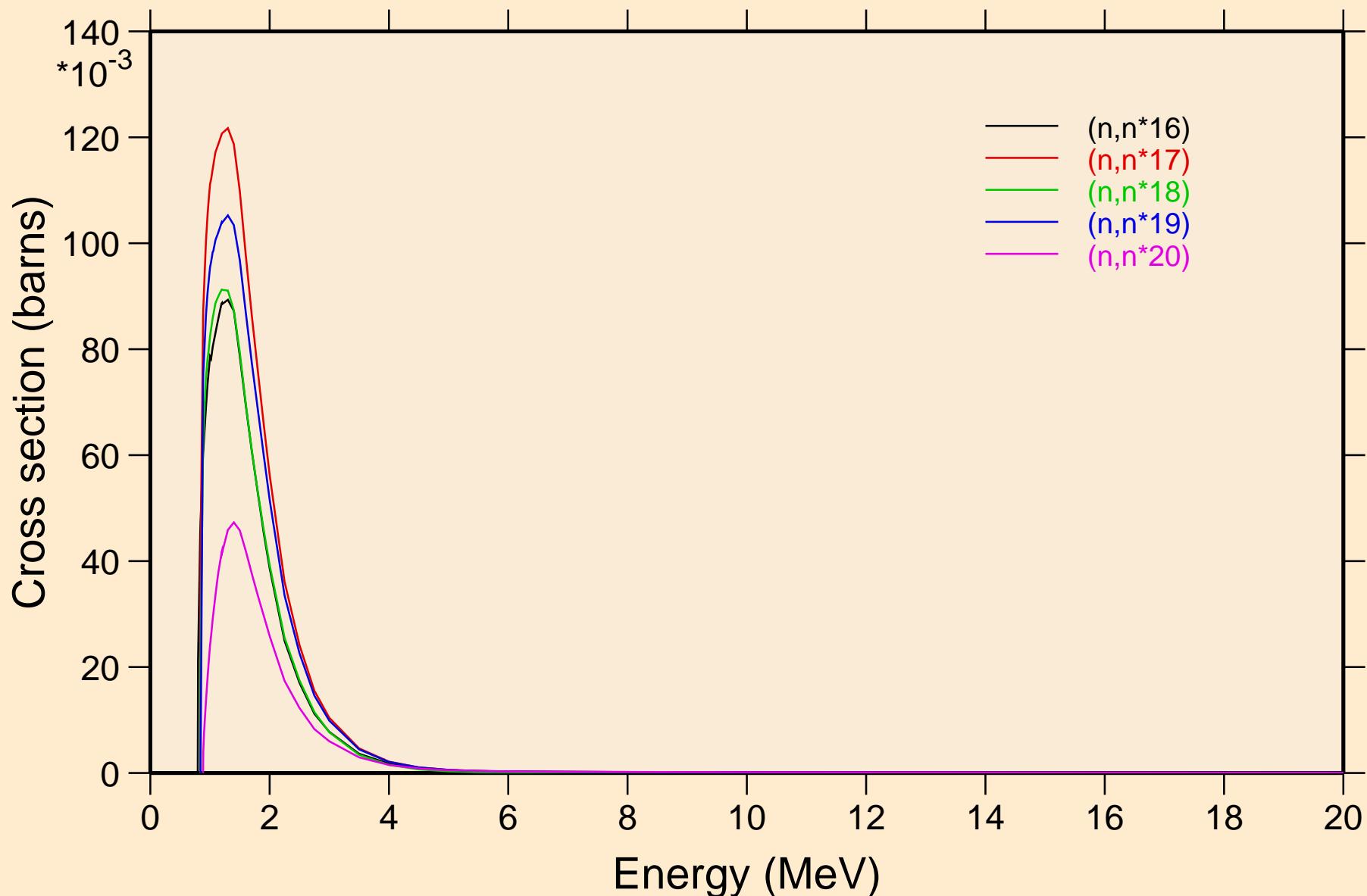
# JENDL-4 SM-149

## Inelastic levels

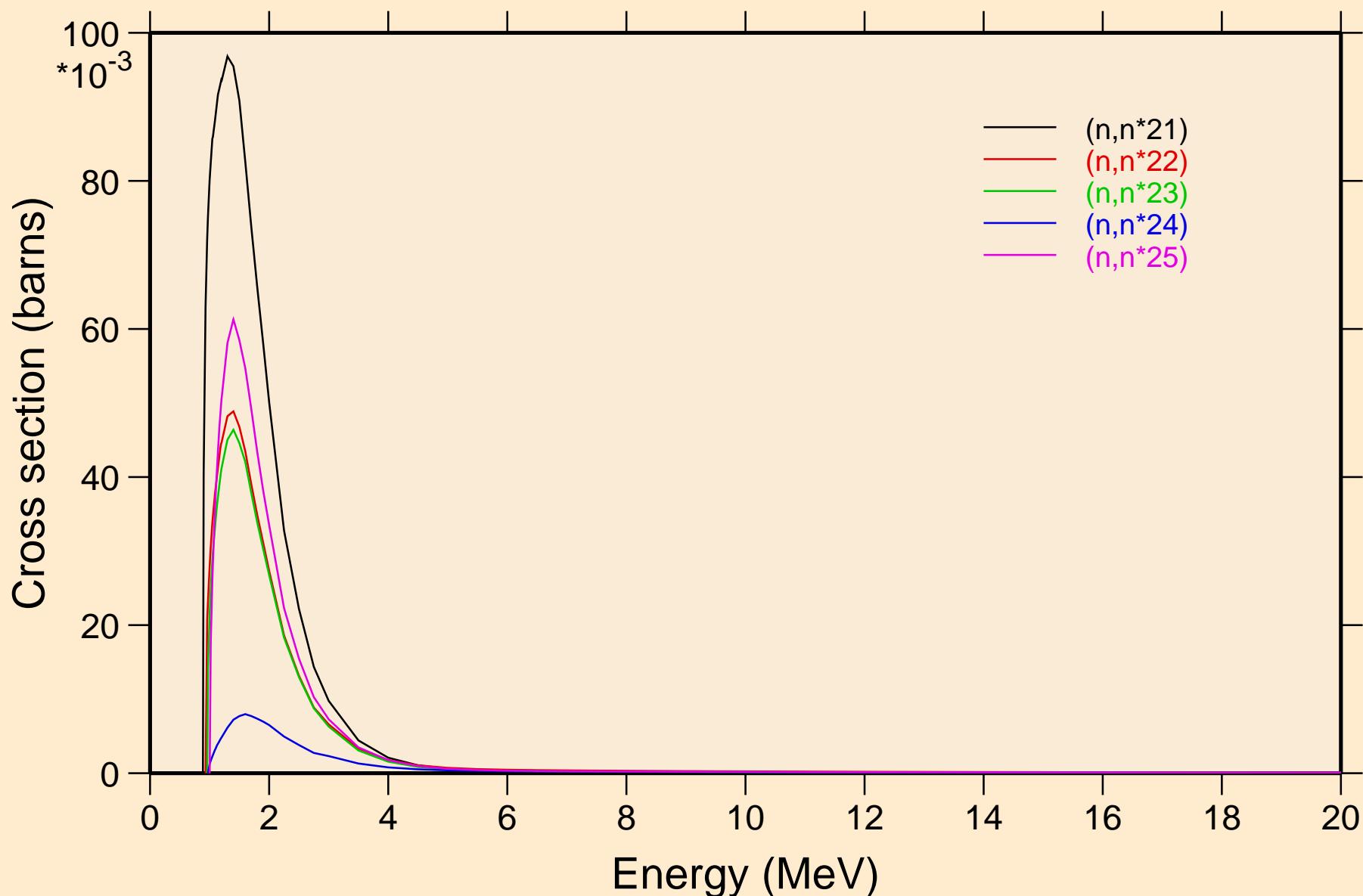


# JENDL-4 SM-149

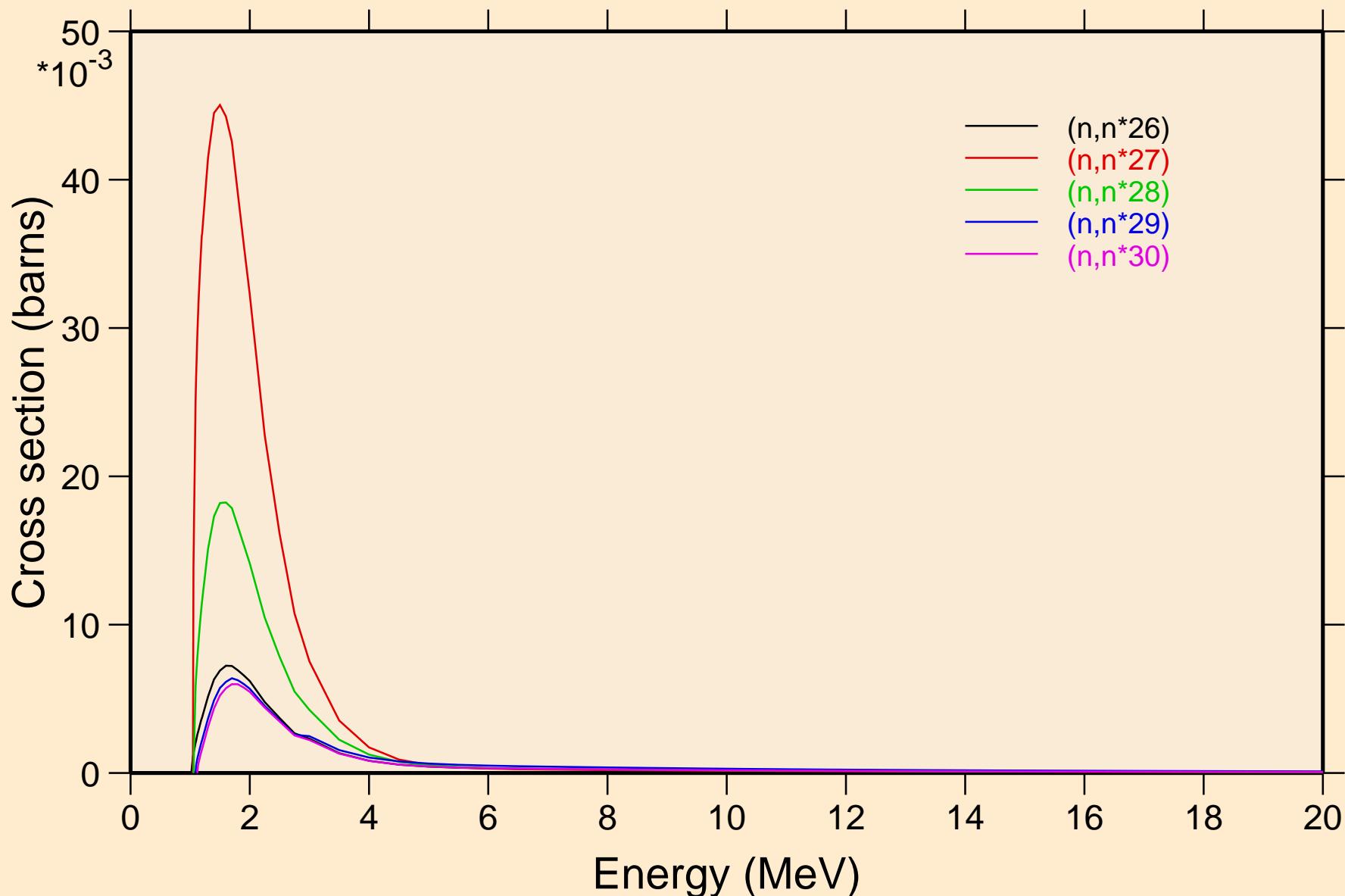
## Inelastic levels



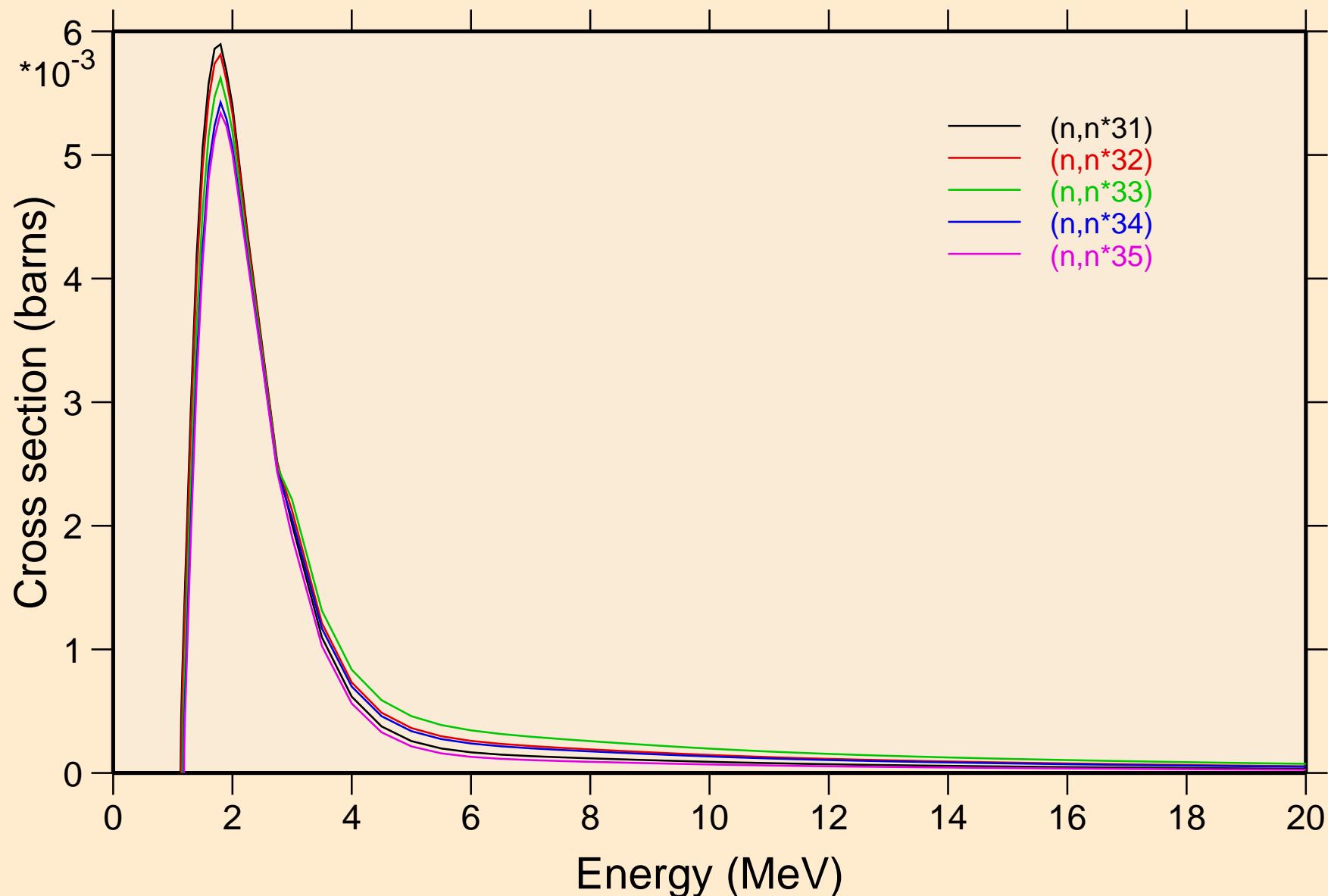
JENDL-4 SM-149  
Inelastic levels



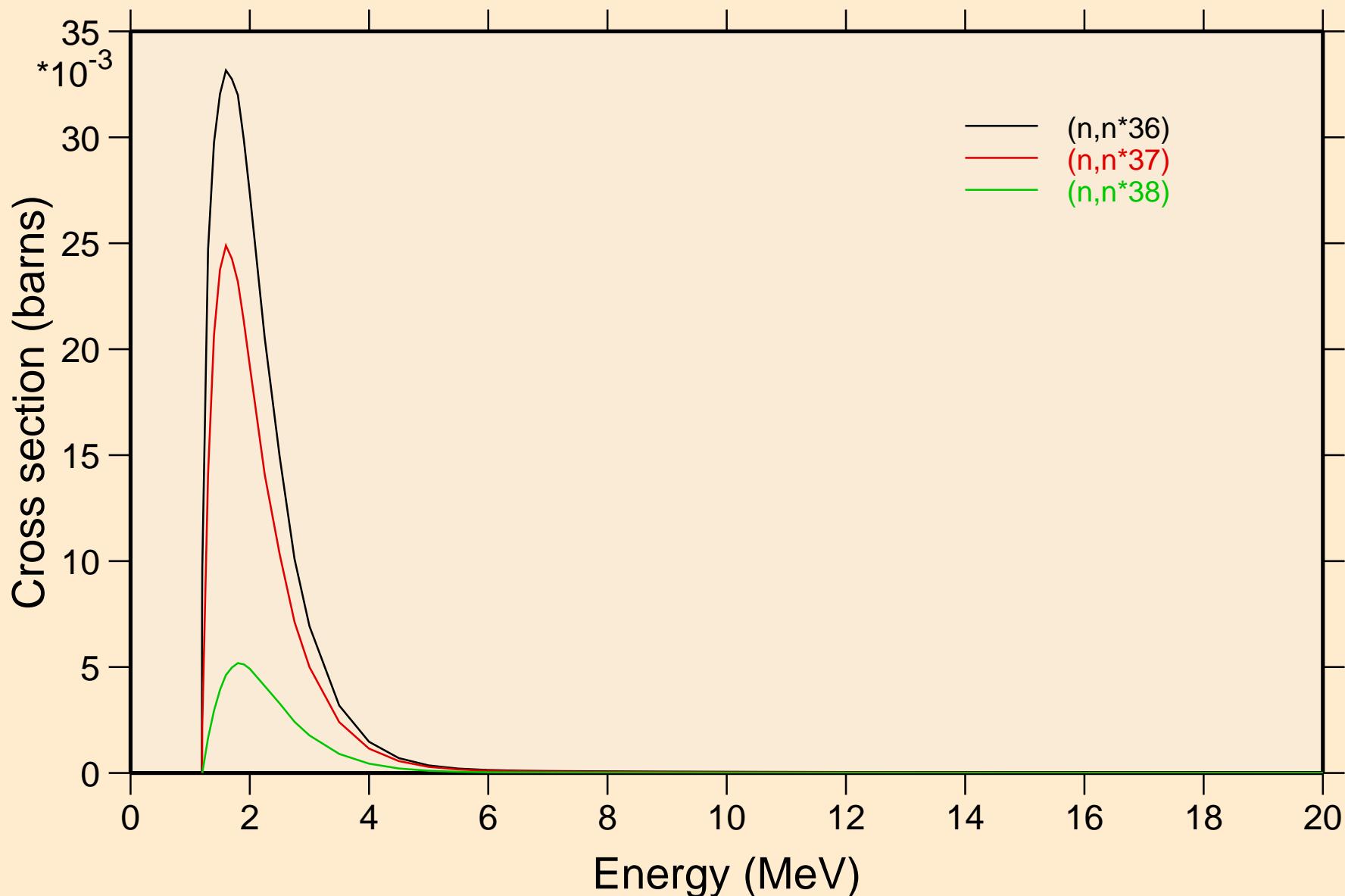
JENDL-4 SM-149  
Inelastic levels



JENDL-4 SM-149  
Inelastic levels

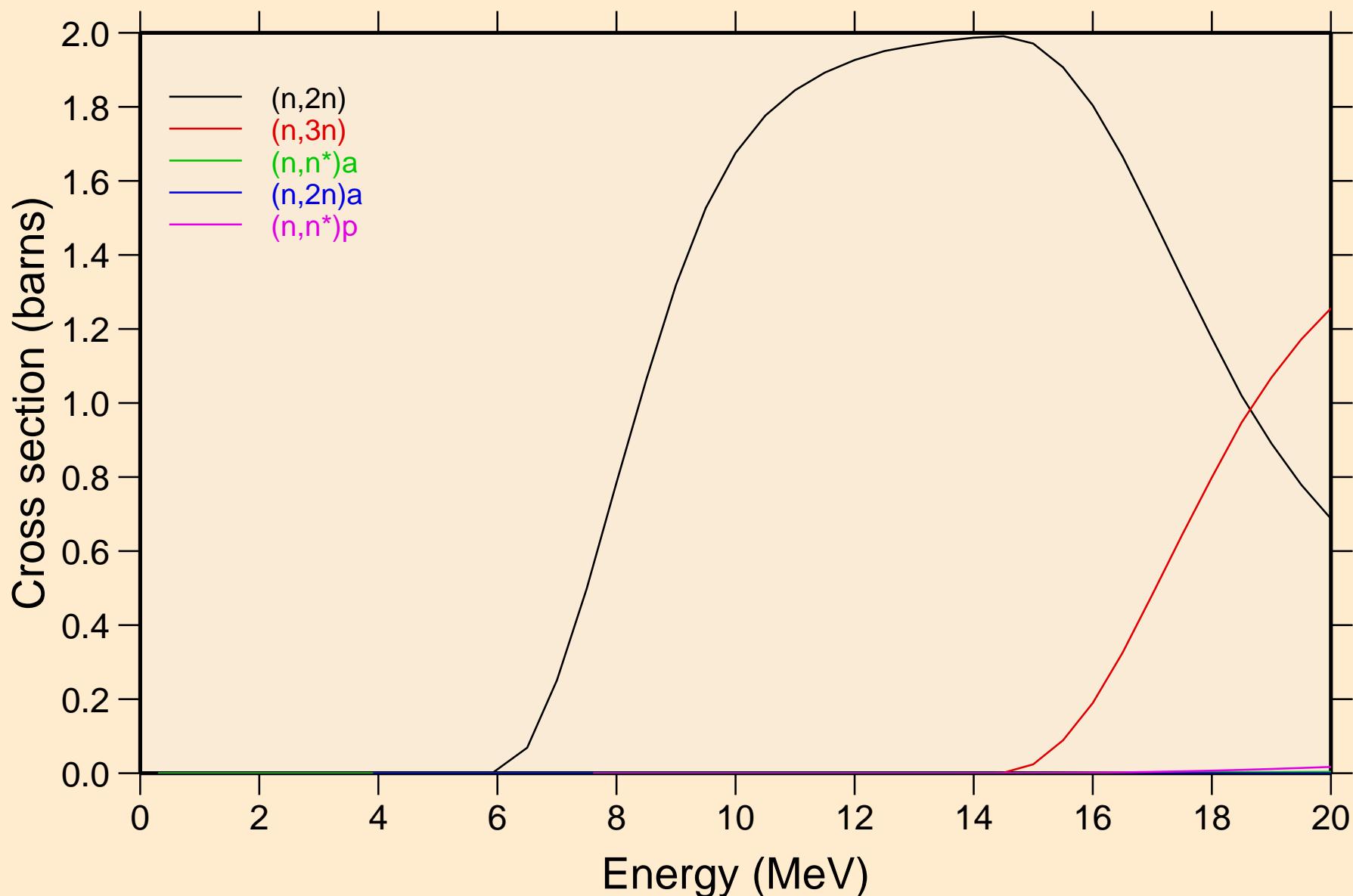


JENDL-4 SM-149  
Inelastic levels



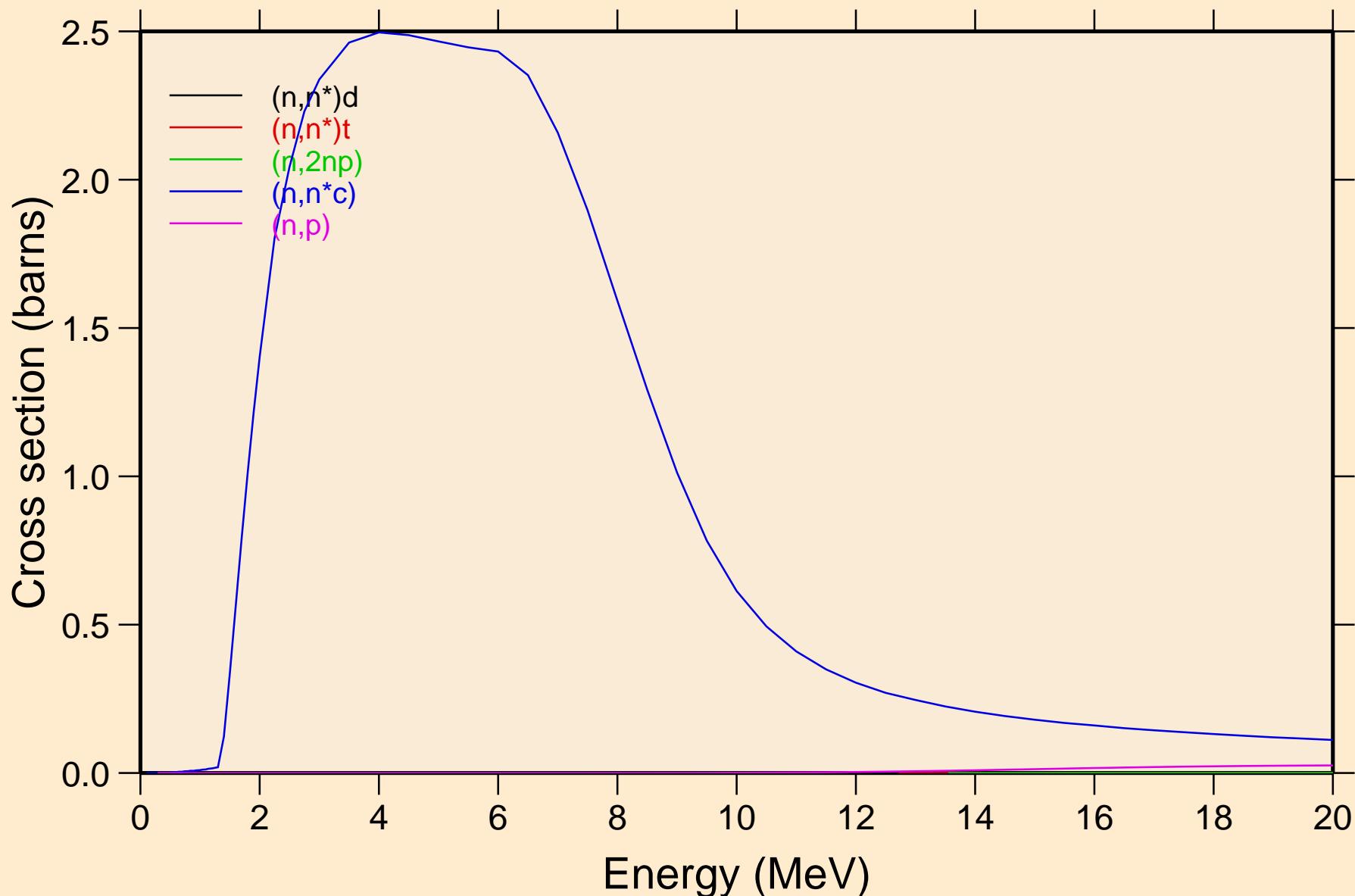
# JENDL-4 SM-149

## Threshold reactions



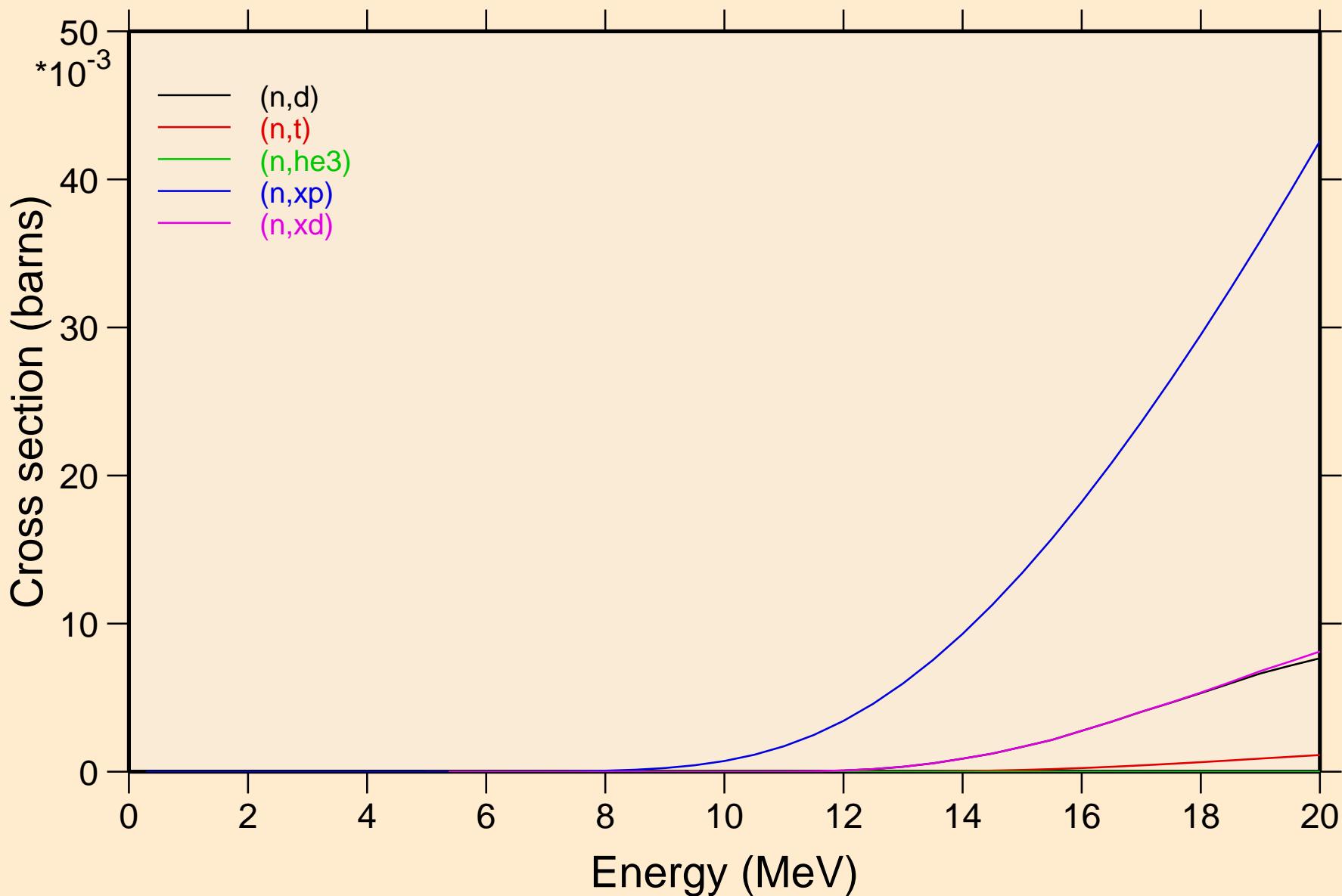
# JENDL-4 SM-149

## Threshold reactions



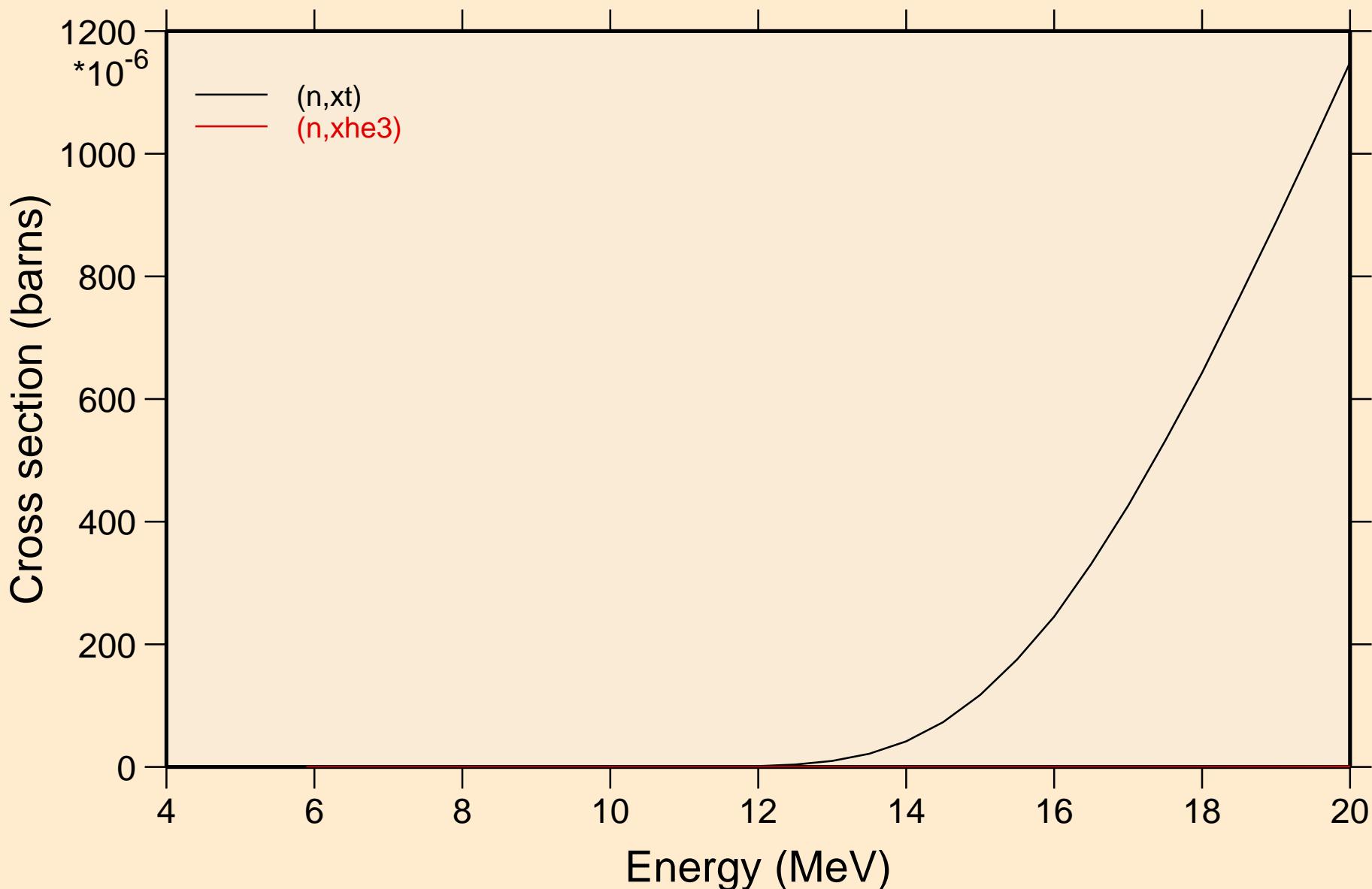
# JENDL-4 SM-149

## Threshold reactions

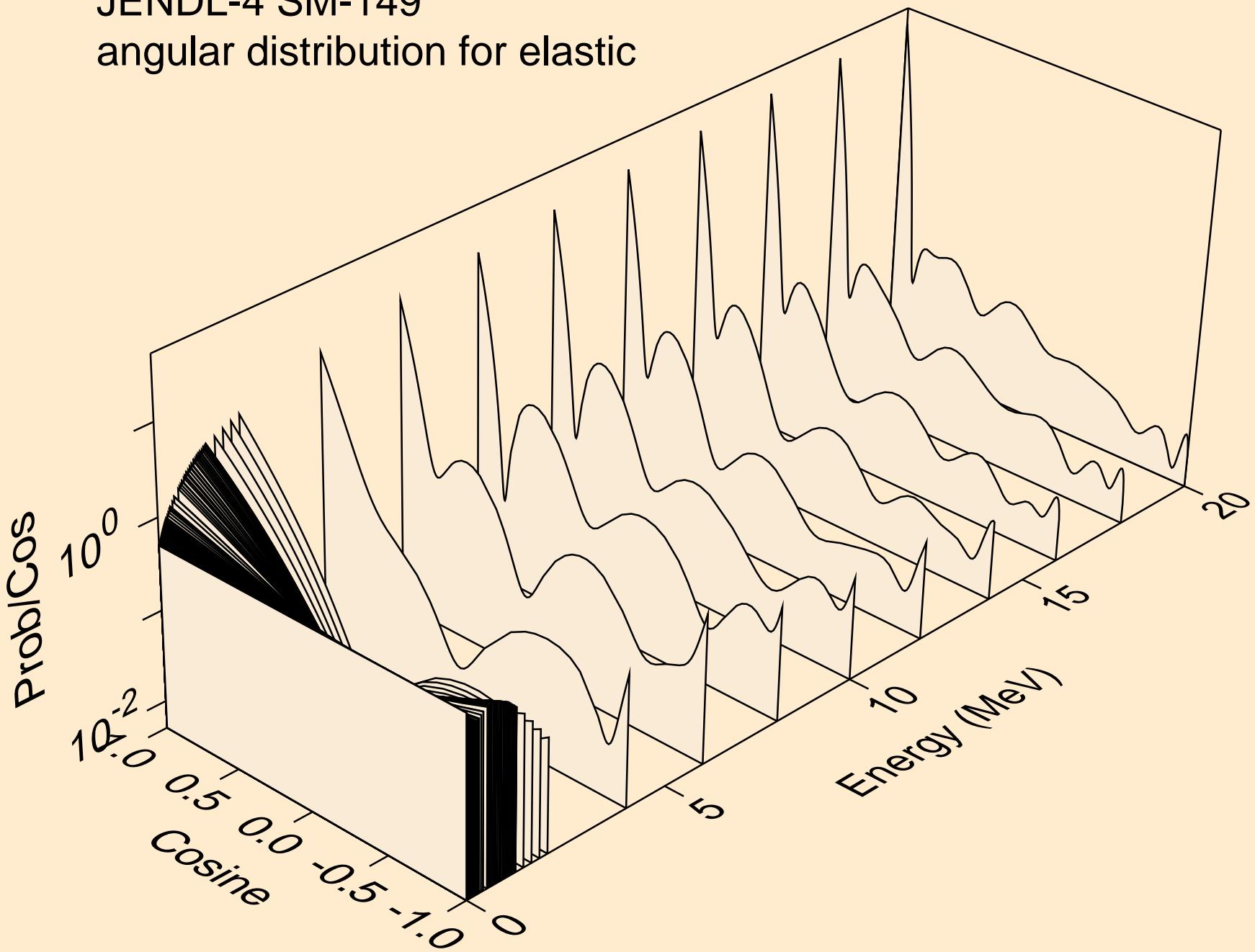


# JENDL-4 SM-149

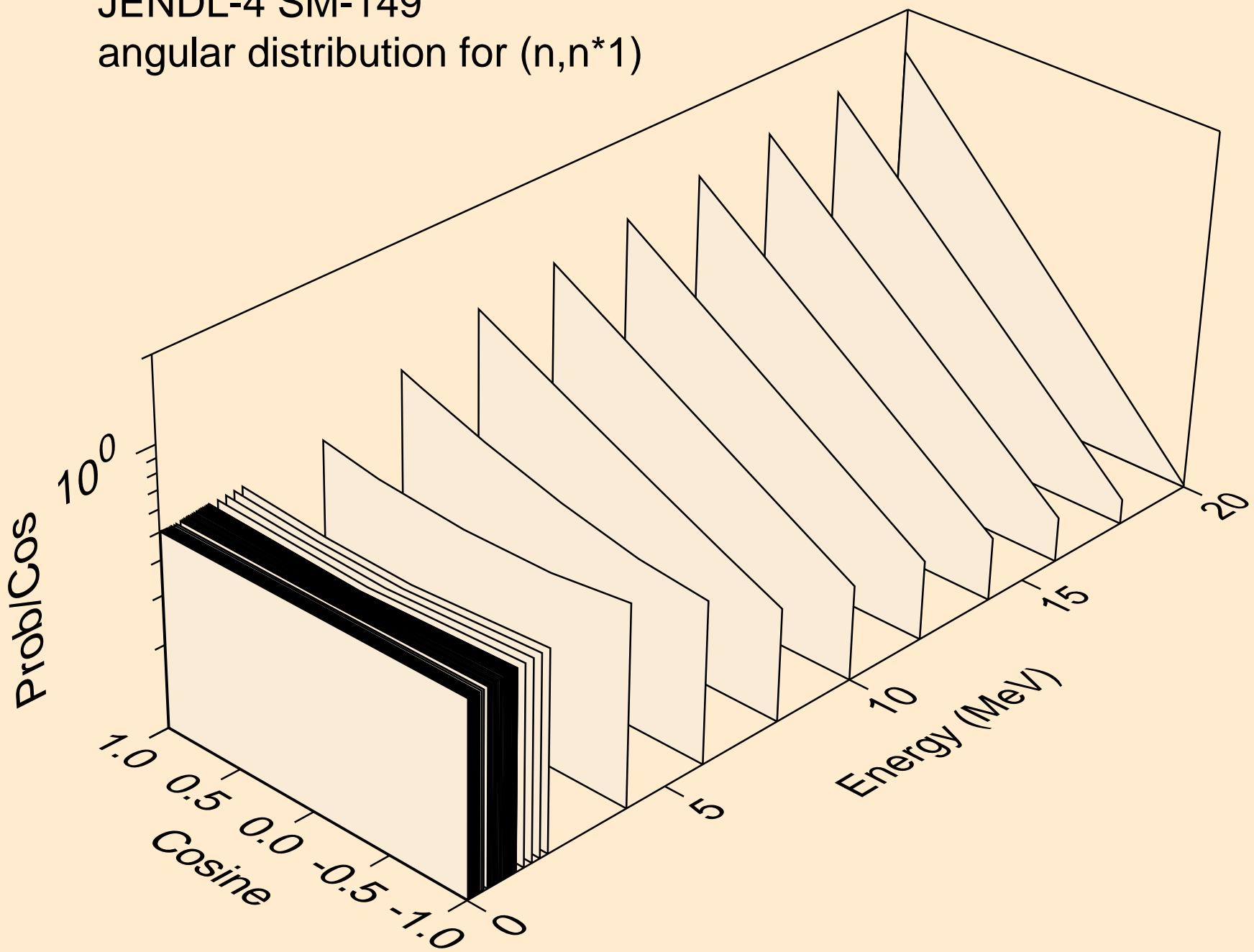
## Threshold reactions



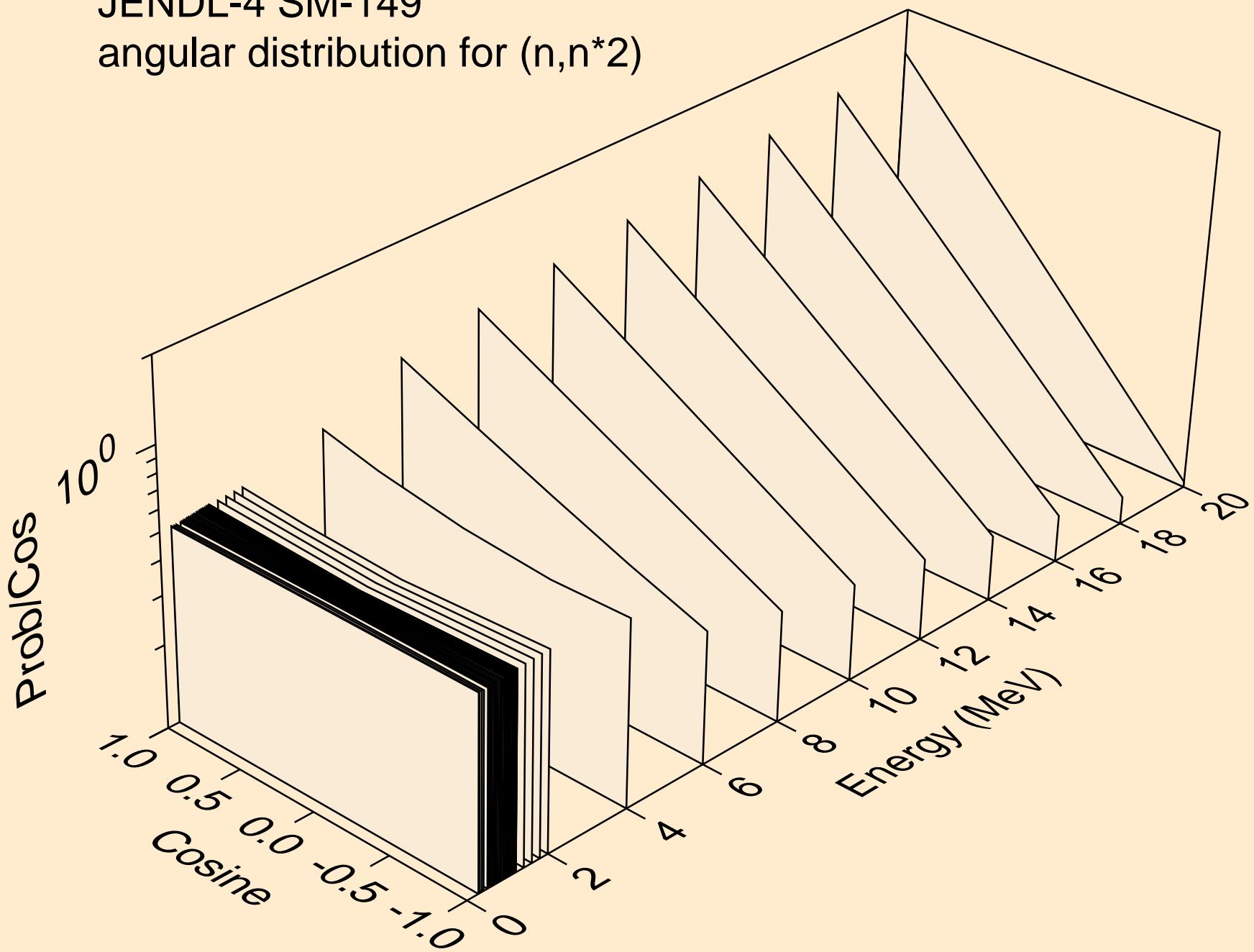
JENDL-4 SM-149  
angular distribution for elastic



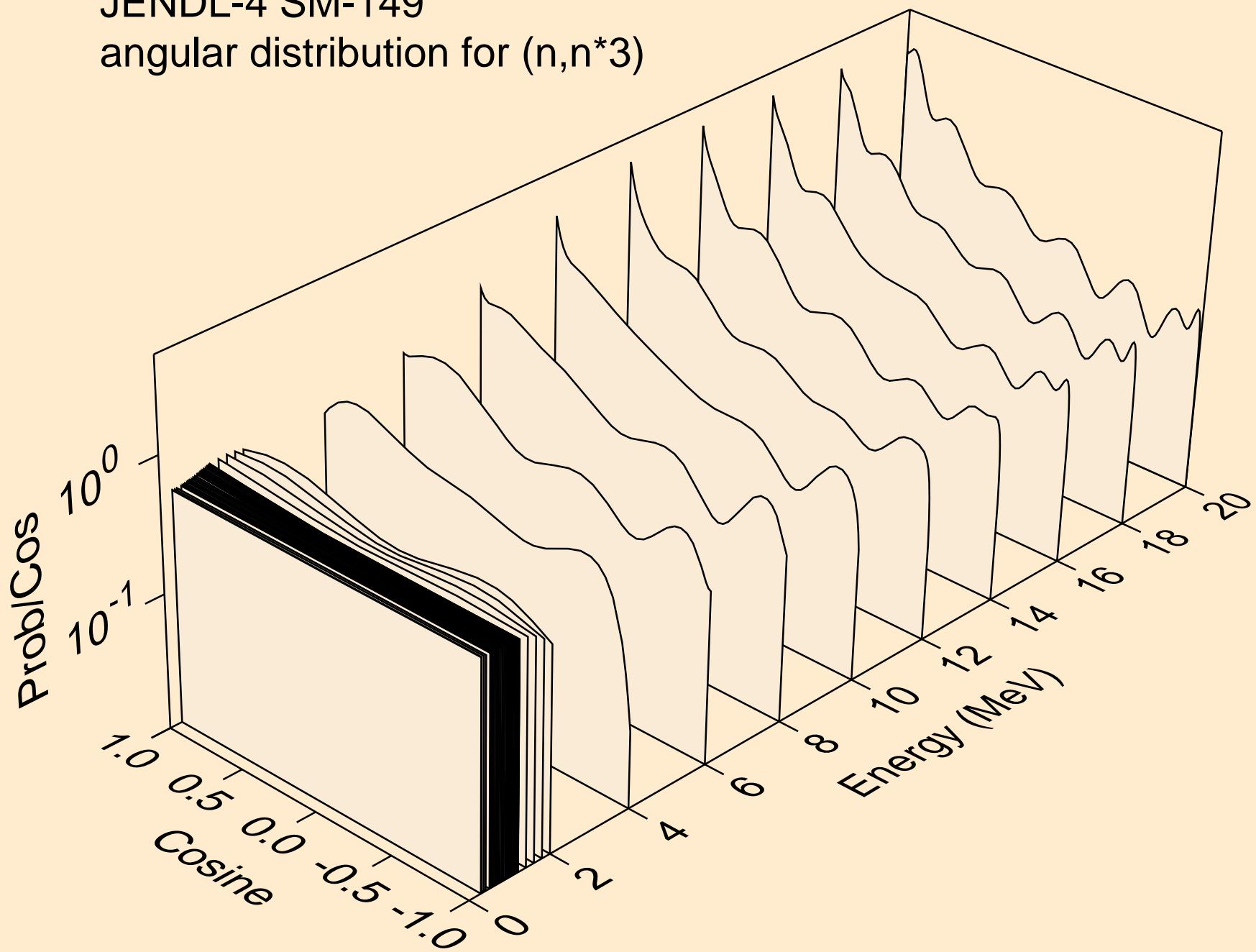
JENDL-4 SM-149  
angular distribution for (n,n\*1)



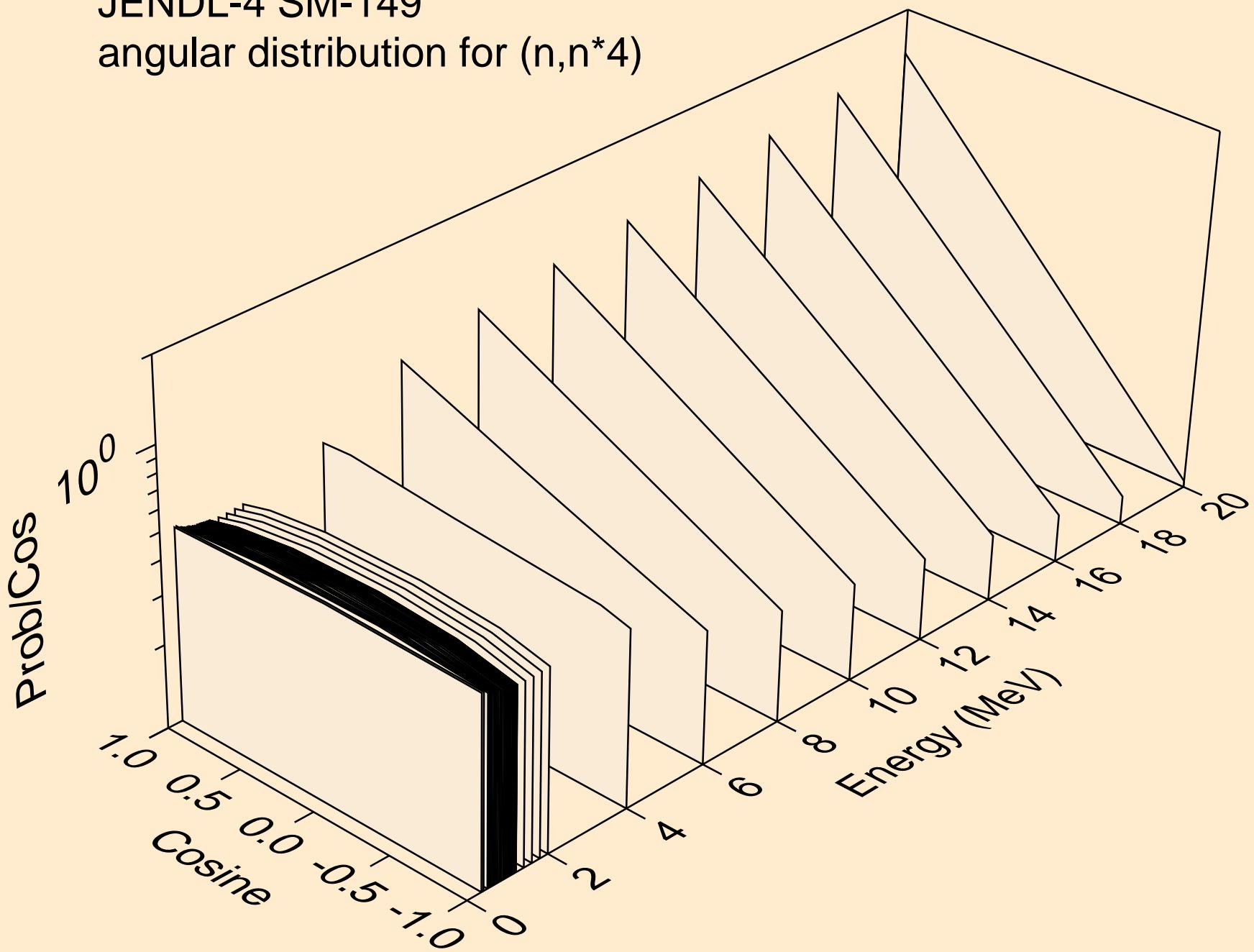
JENDL-4 SM-149  
angular distribution for  $(n,n^2)$



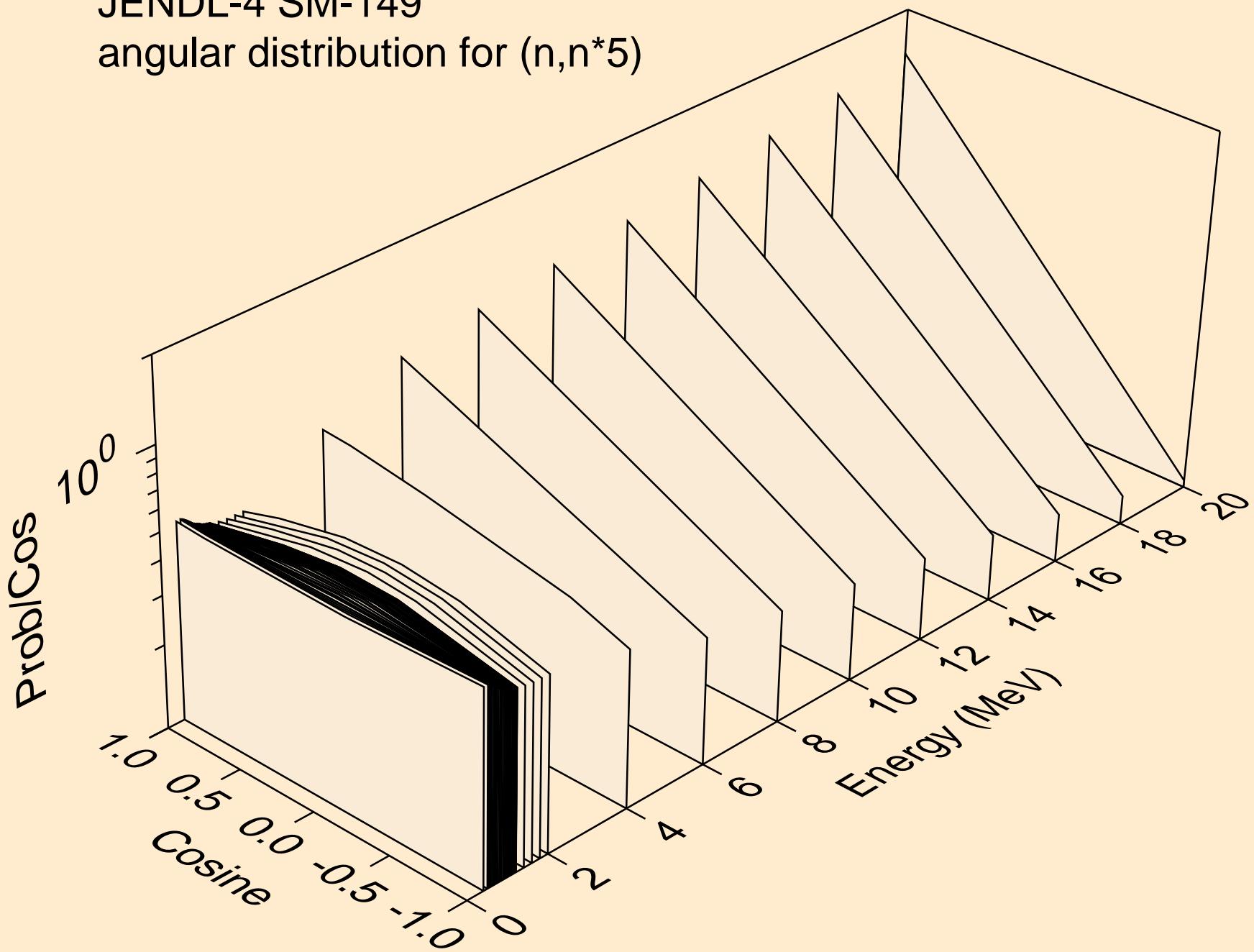
JENDL-4 SM-149  
angular distribution for  $(n,n^*3)$



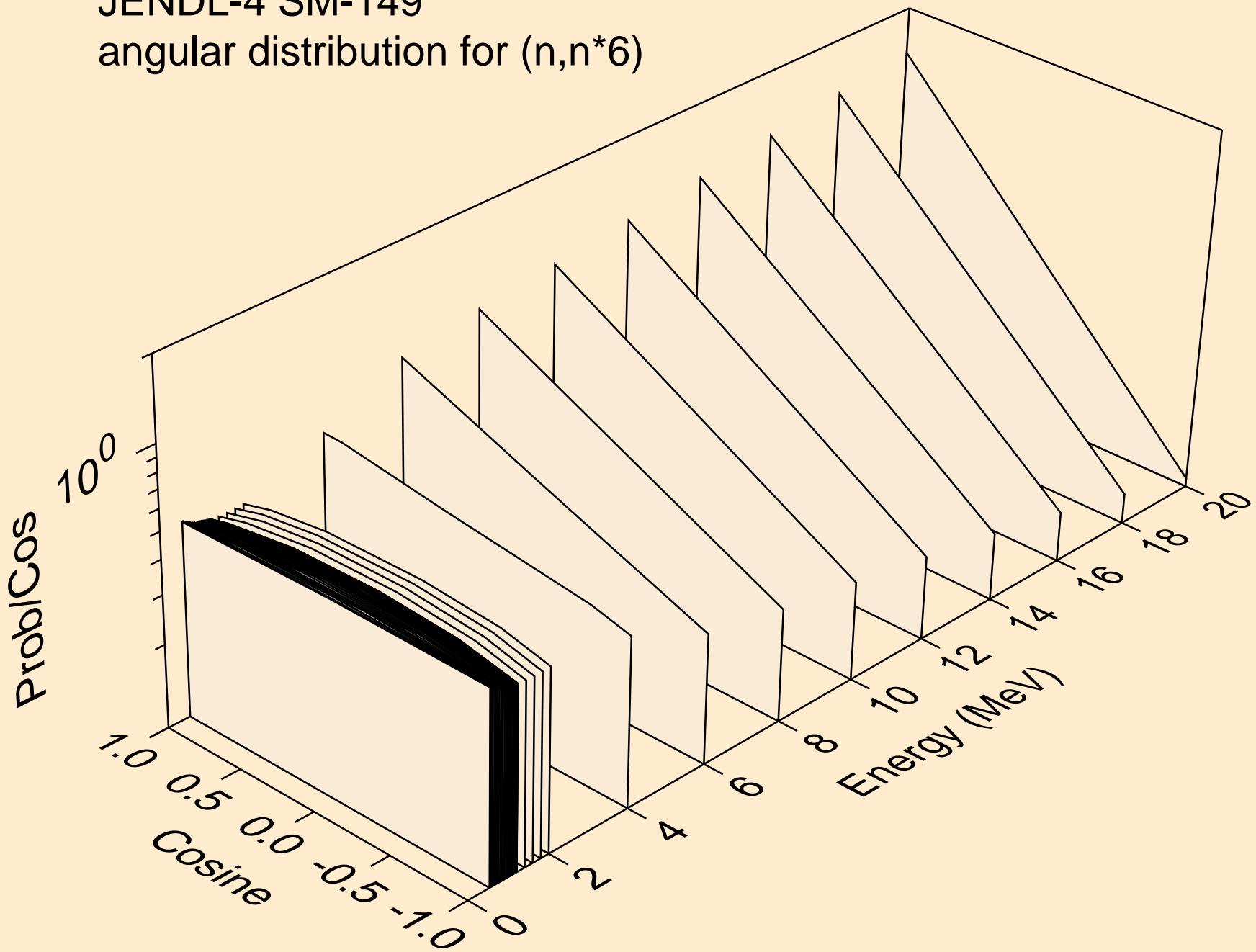
JENDL-4 SM-149  
angular distribution for  $(n,n^*4)$



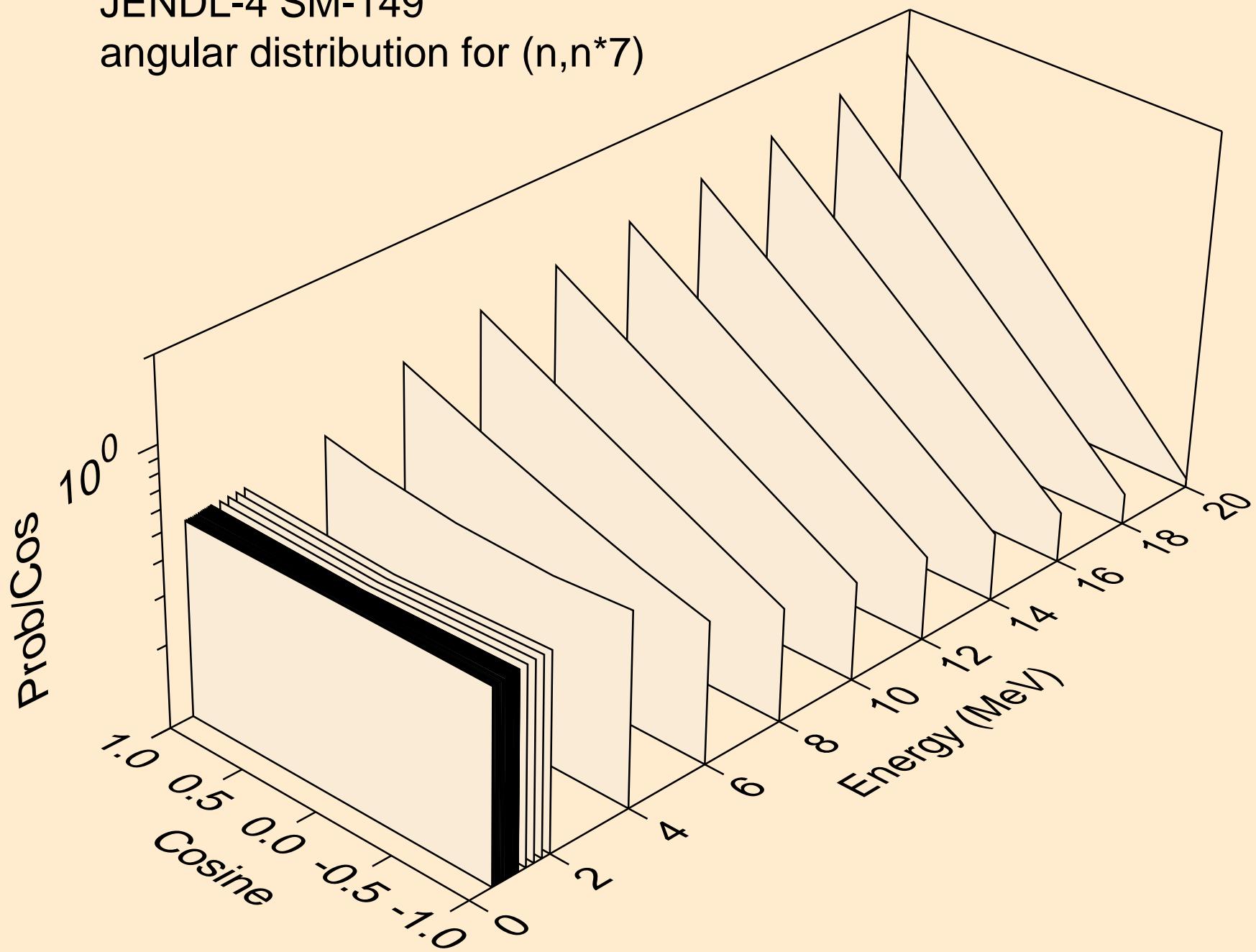
JENDL-4 SM-149  
angular distribution for  $(n,n^*)^5$



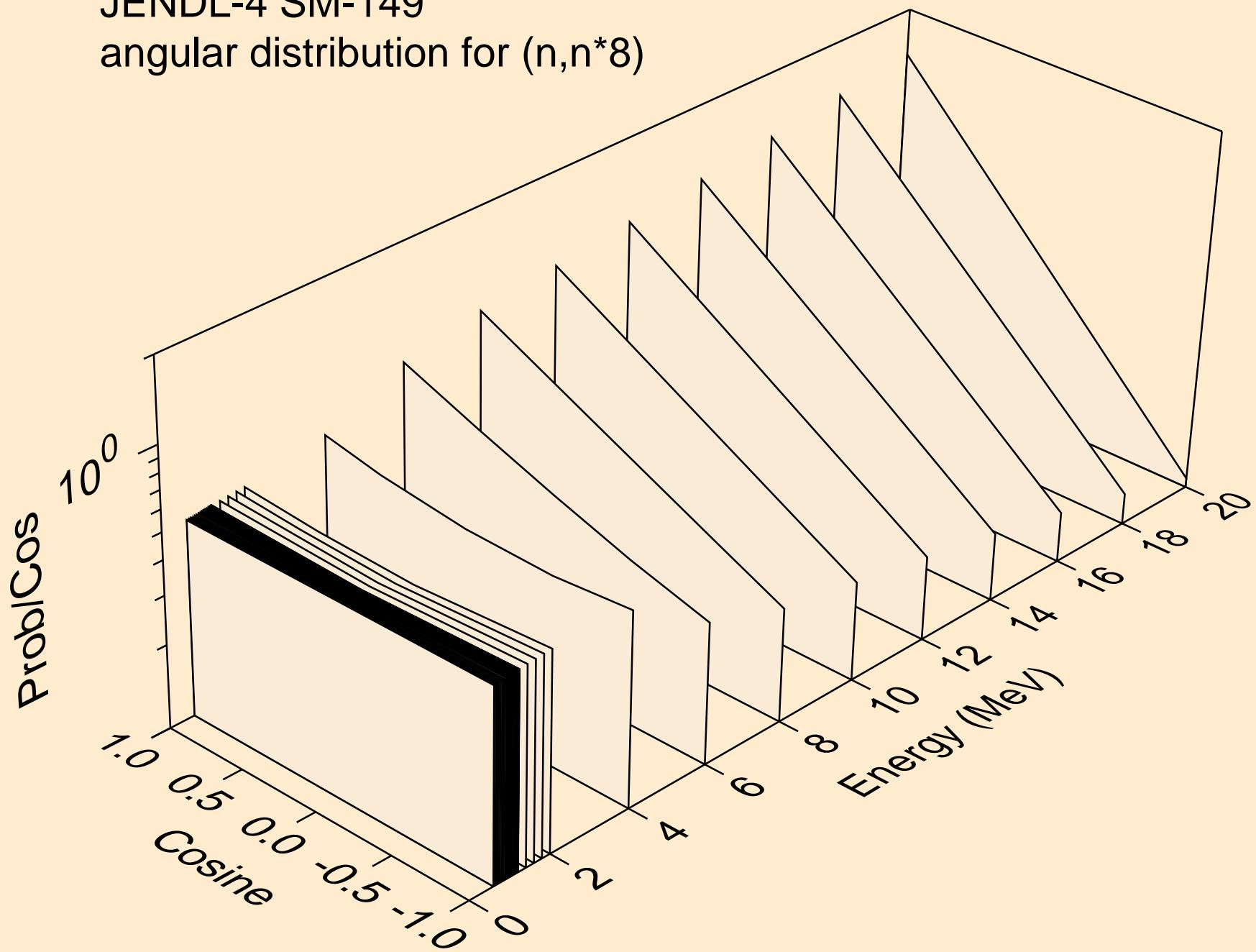
JENDL-4 SM-149  
angular distribution for  $(n,n^*6)$



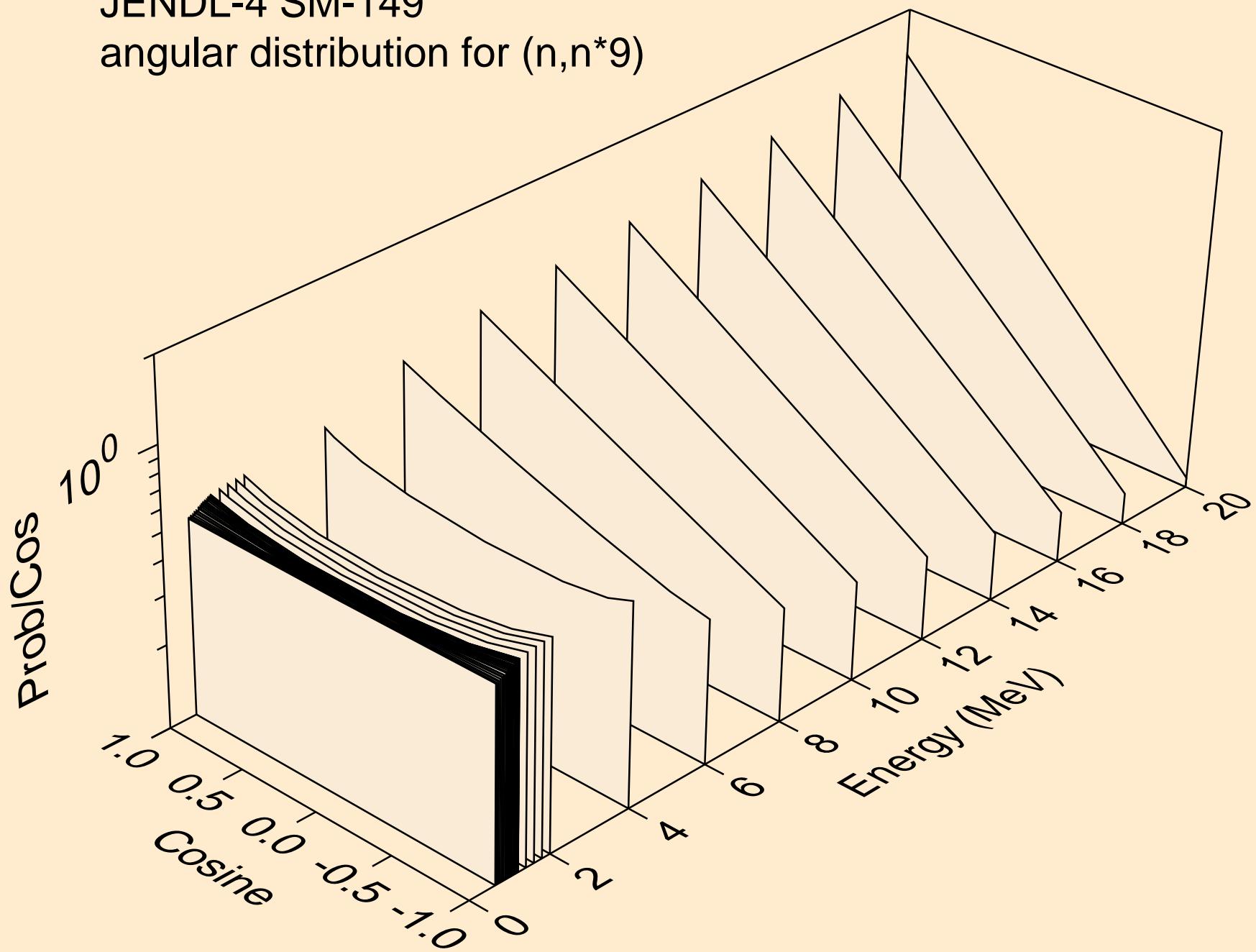
JENDL-4 SM-149  
angular distribution for  $(n,n^*7)$



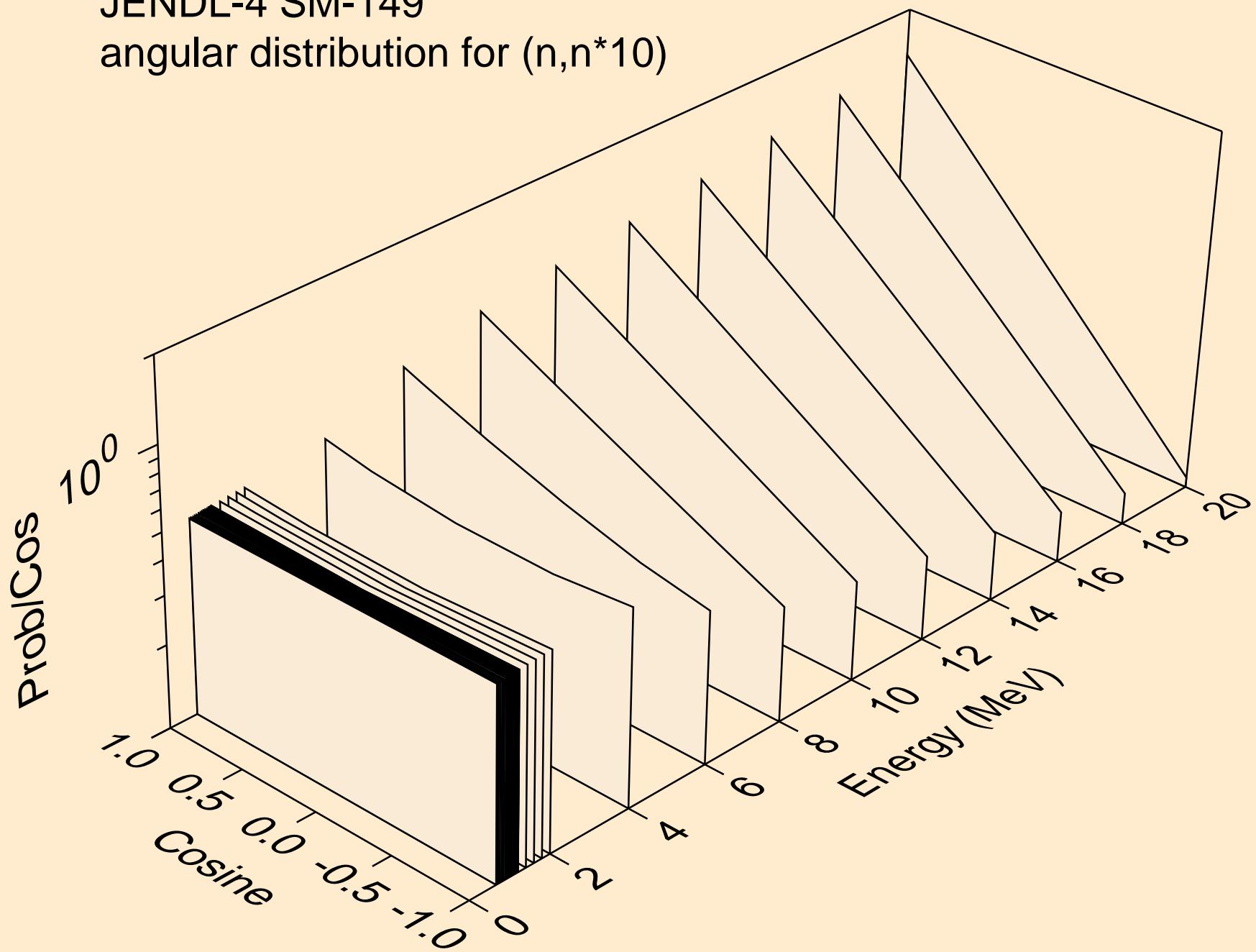
JENDL-4 SM-149  
angular distribution for  $(n,n^*8)$



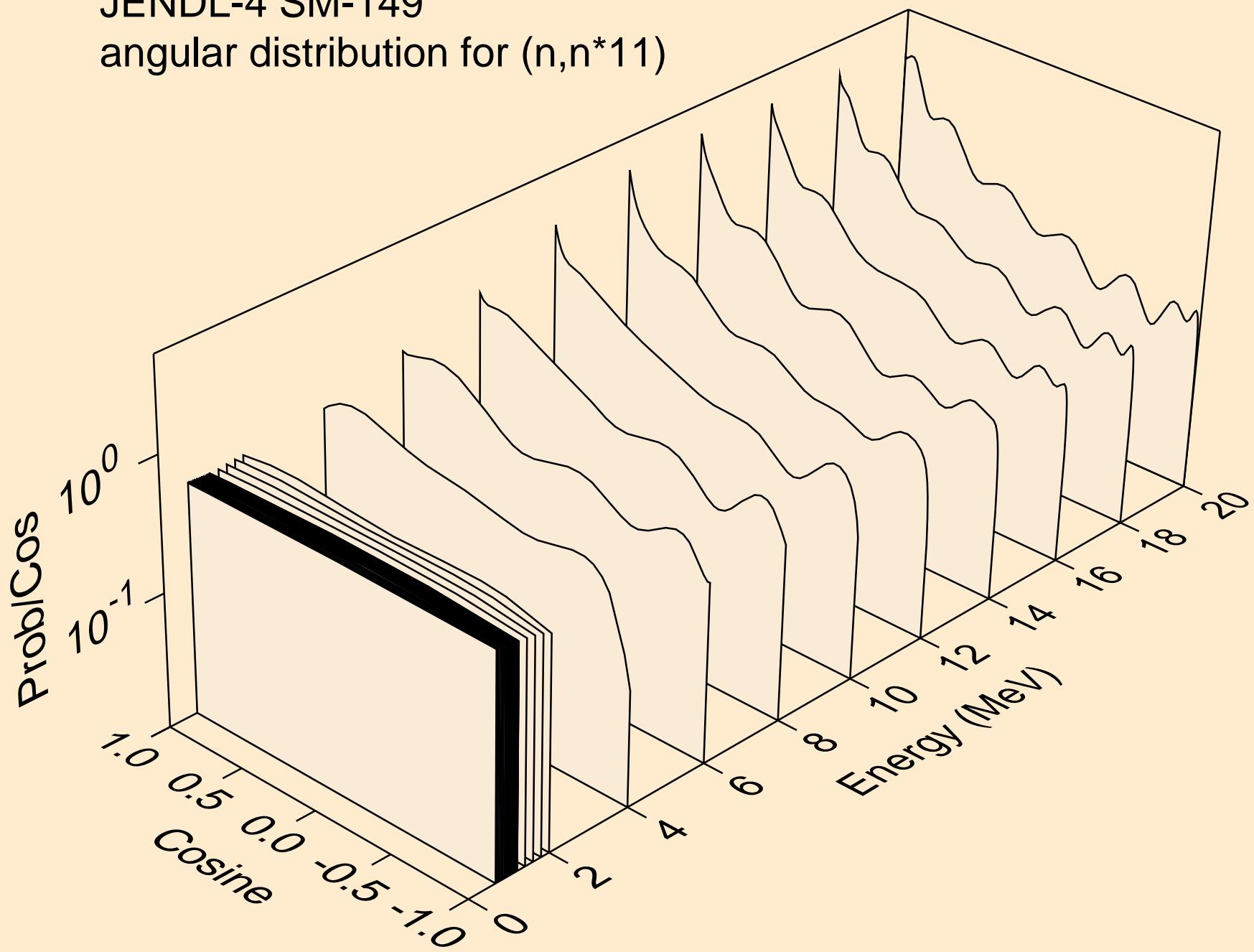
JENDL-4 SM-149  
angular distribution for  $(n,n^*9)$



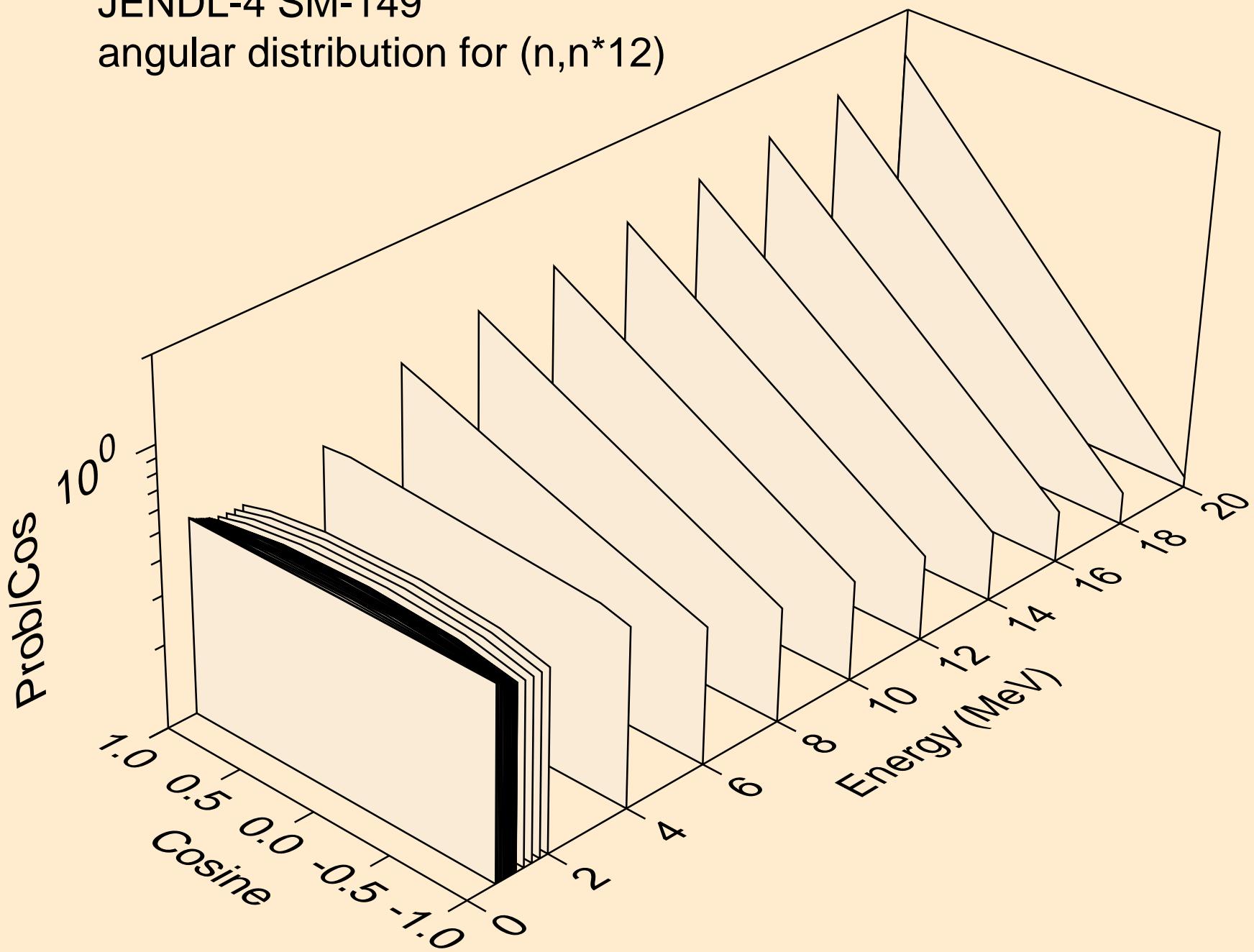
JENDL-4 SM-149  
angular distribution for (n,n\*10)



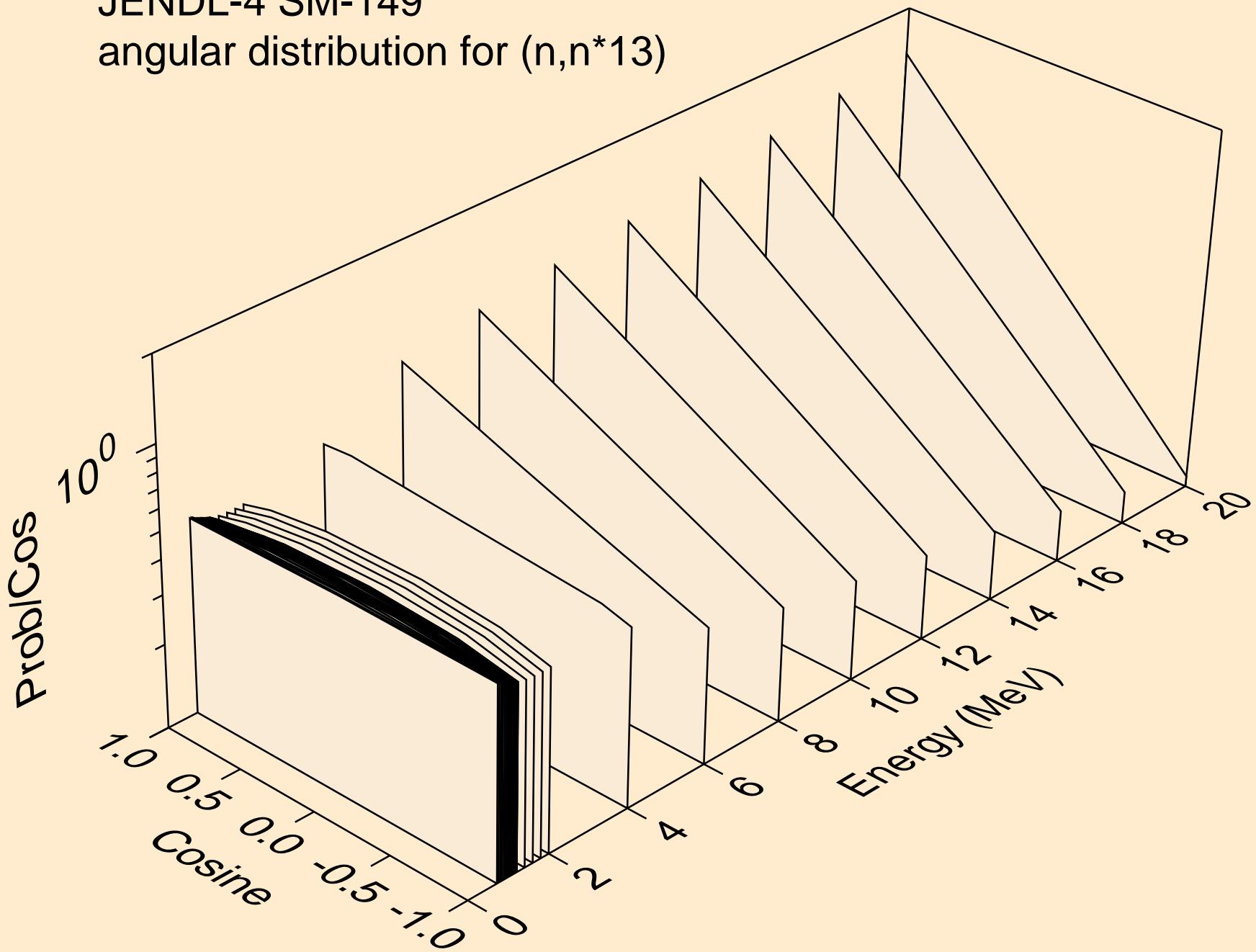
JENDL-4 SM-149  
angular distribution for  $(n,n^*11)$



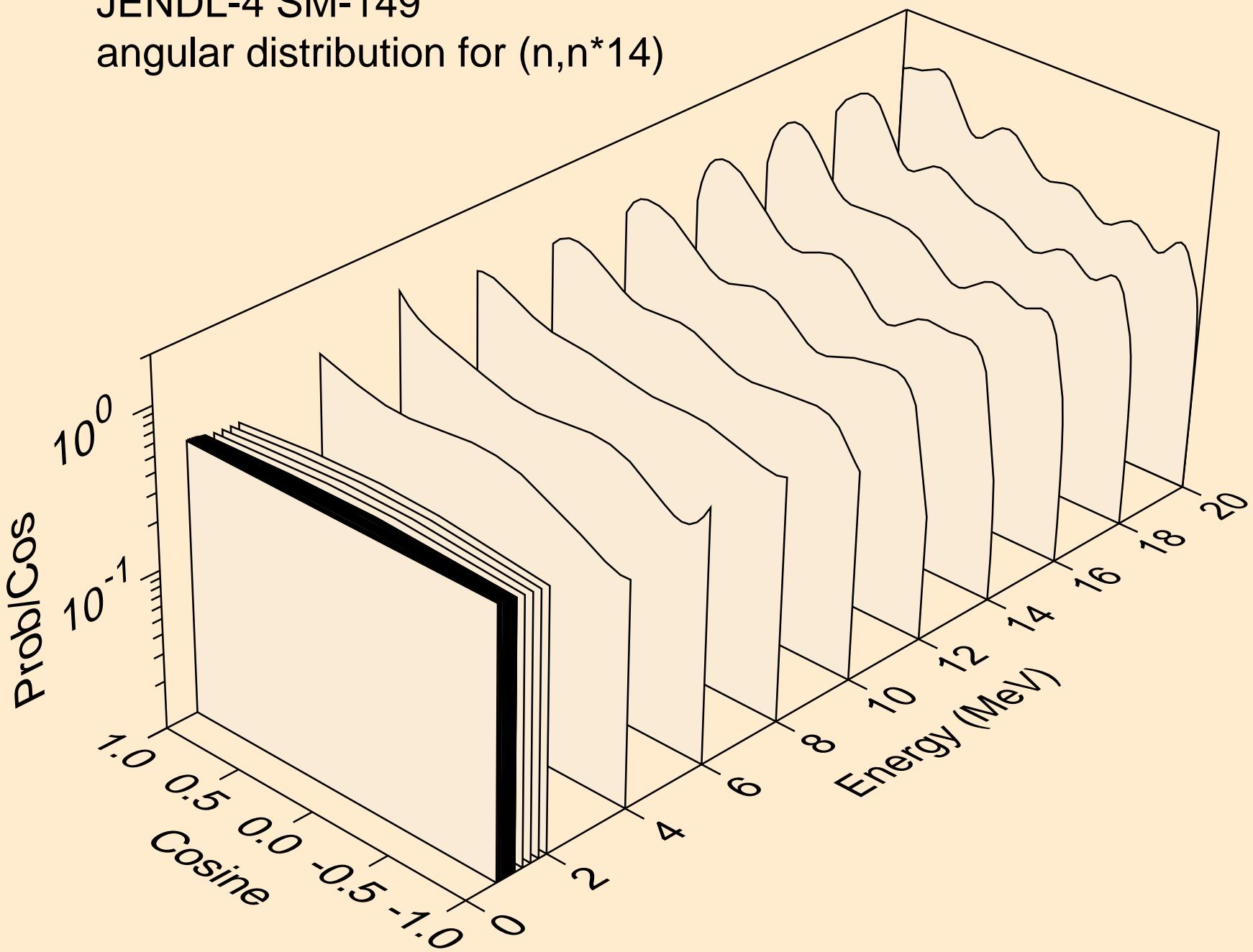
JENDL-4 SM-149  
angular distribution for  $(n,n^*12)$



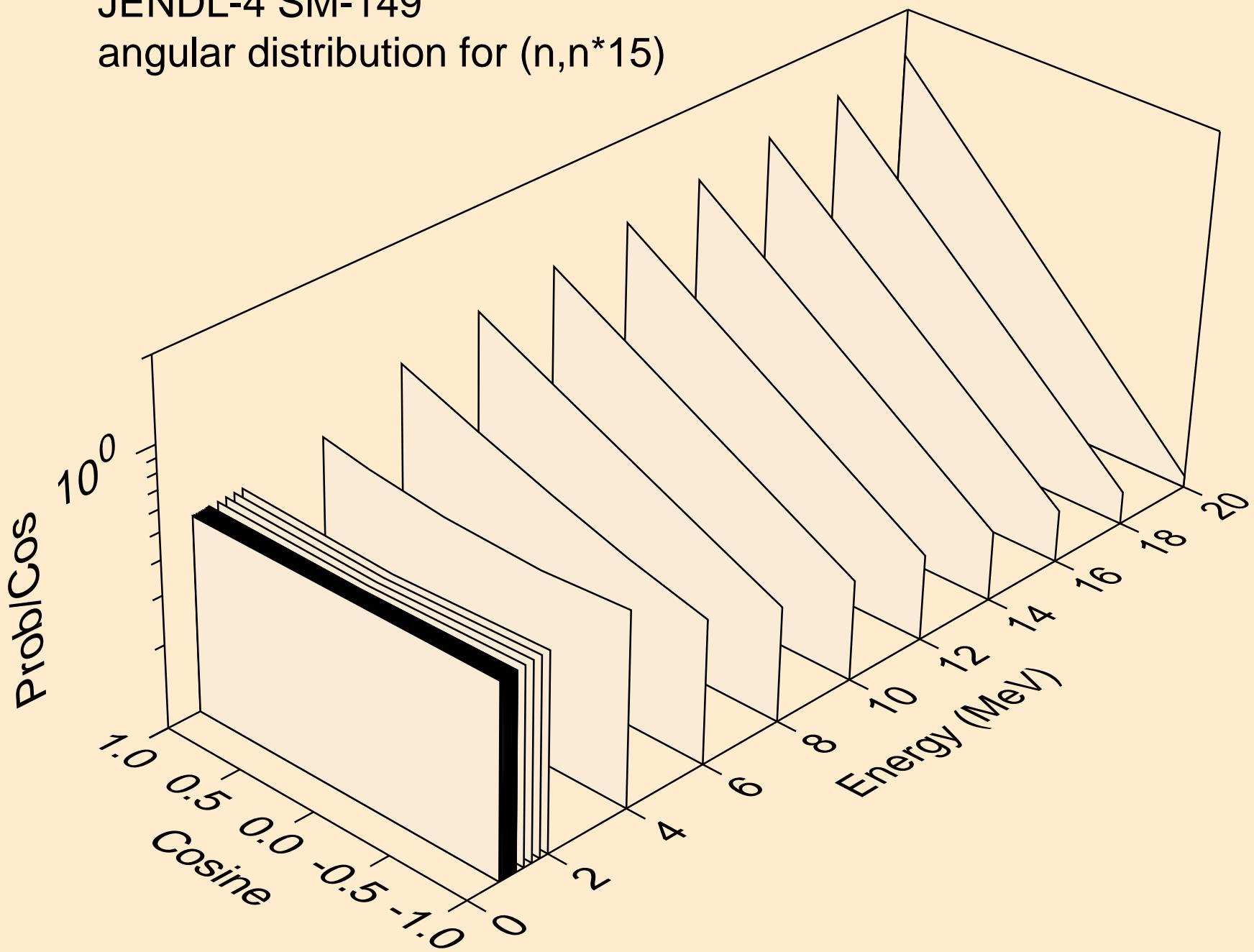
JENDL-4 SM-149  
angular distribution for (n,n\*13)



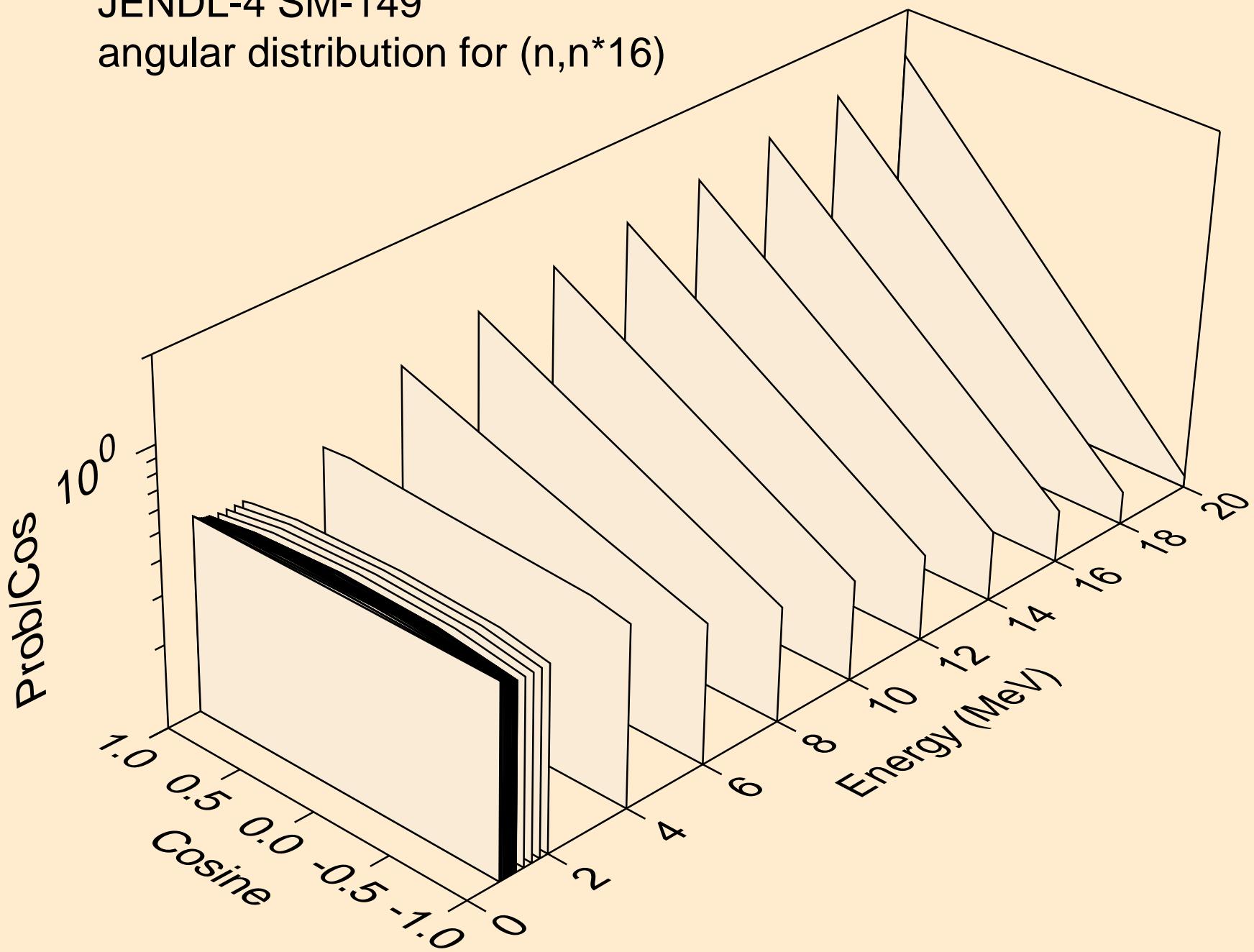
JENDL-4 SM-149  
angular distribution for  $(n,n^*14)$



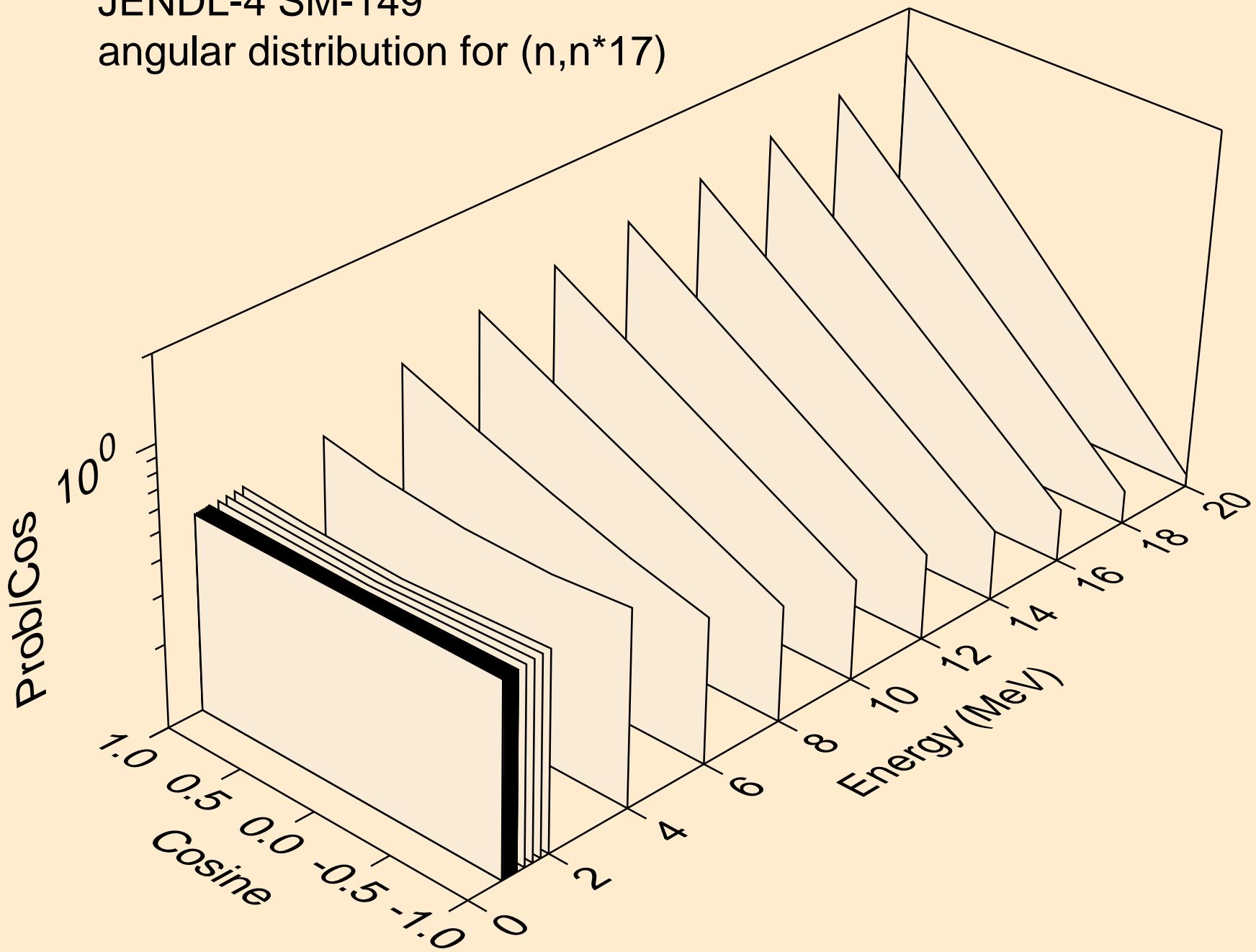
JENDL-4 SM-149  
angular distribution for (n,n\*15)



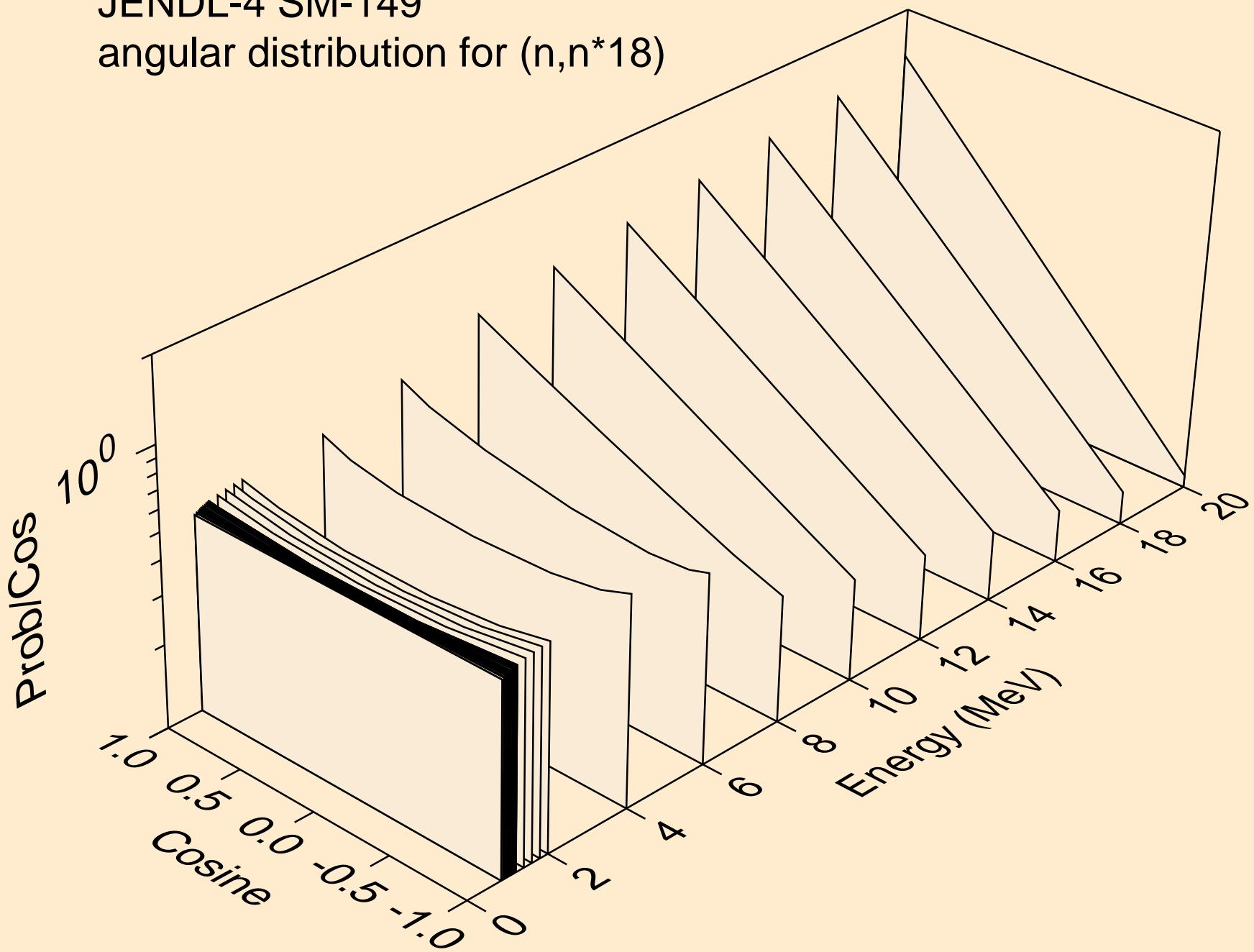
JENDL-4 SM-149  
angular distribution for (n,n\*16)



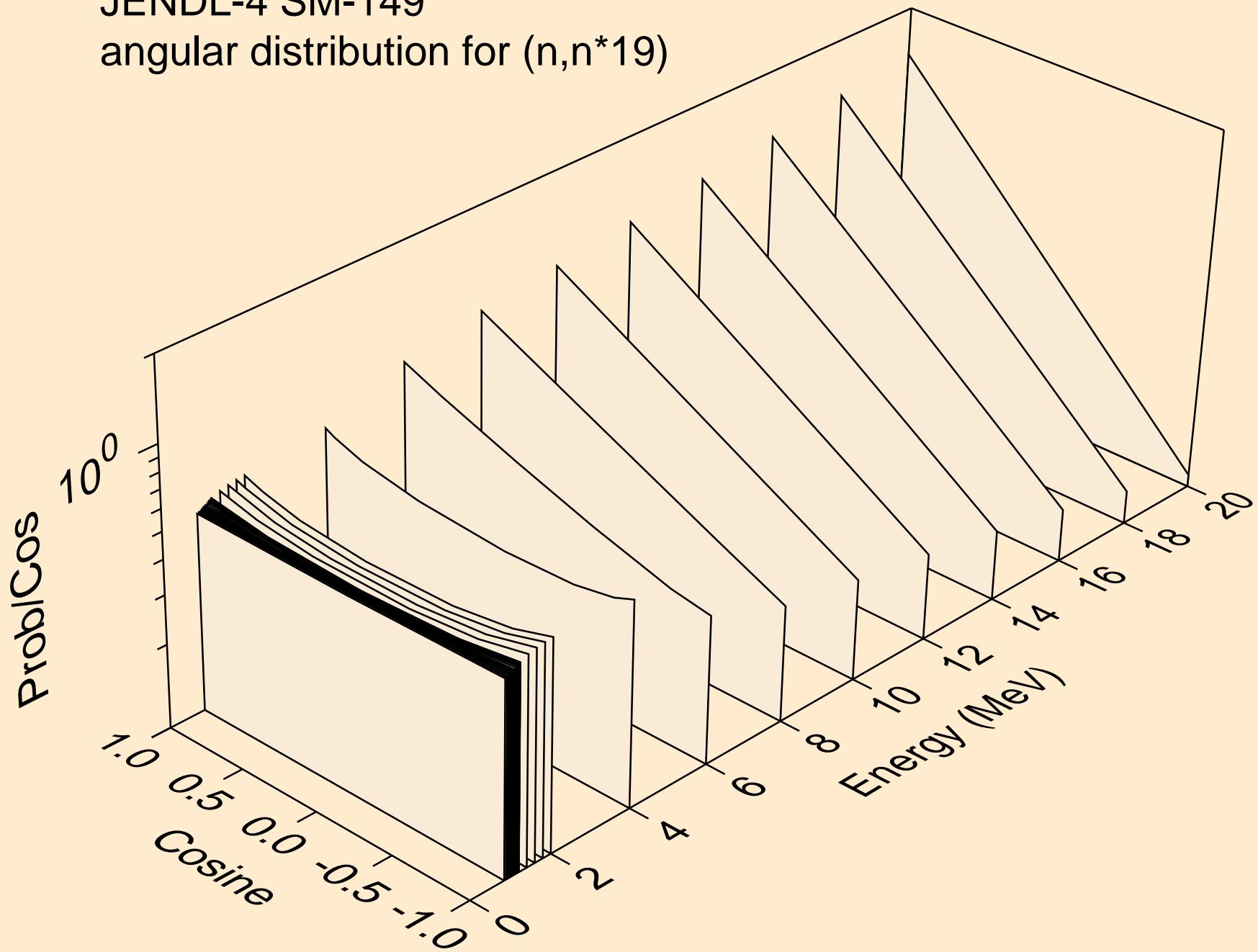
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angular distribution for (n,n\*17)



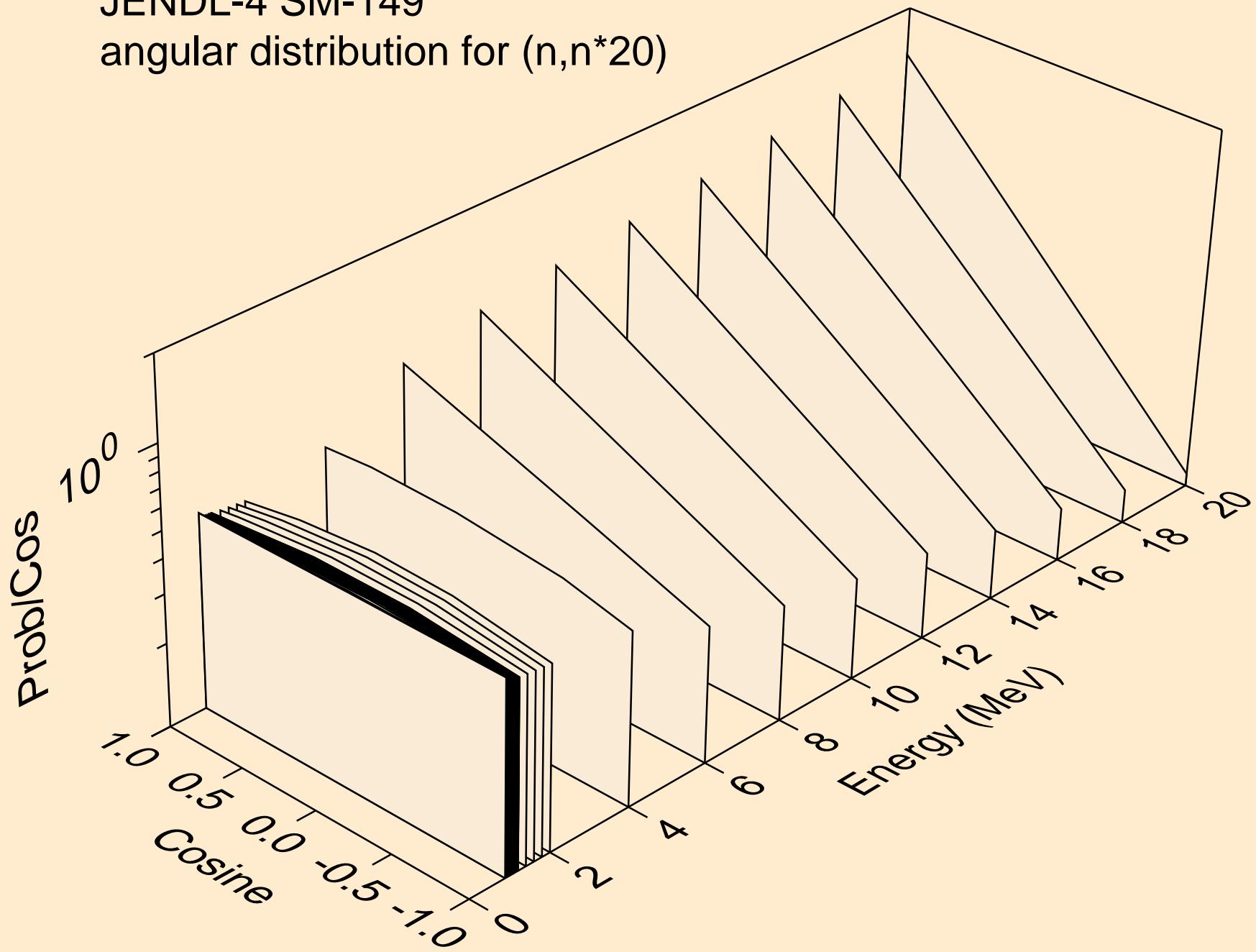
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angular distribution for (n,n\*18)



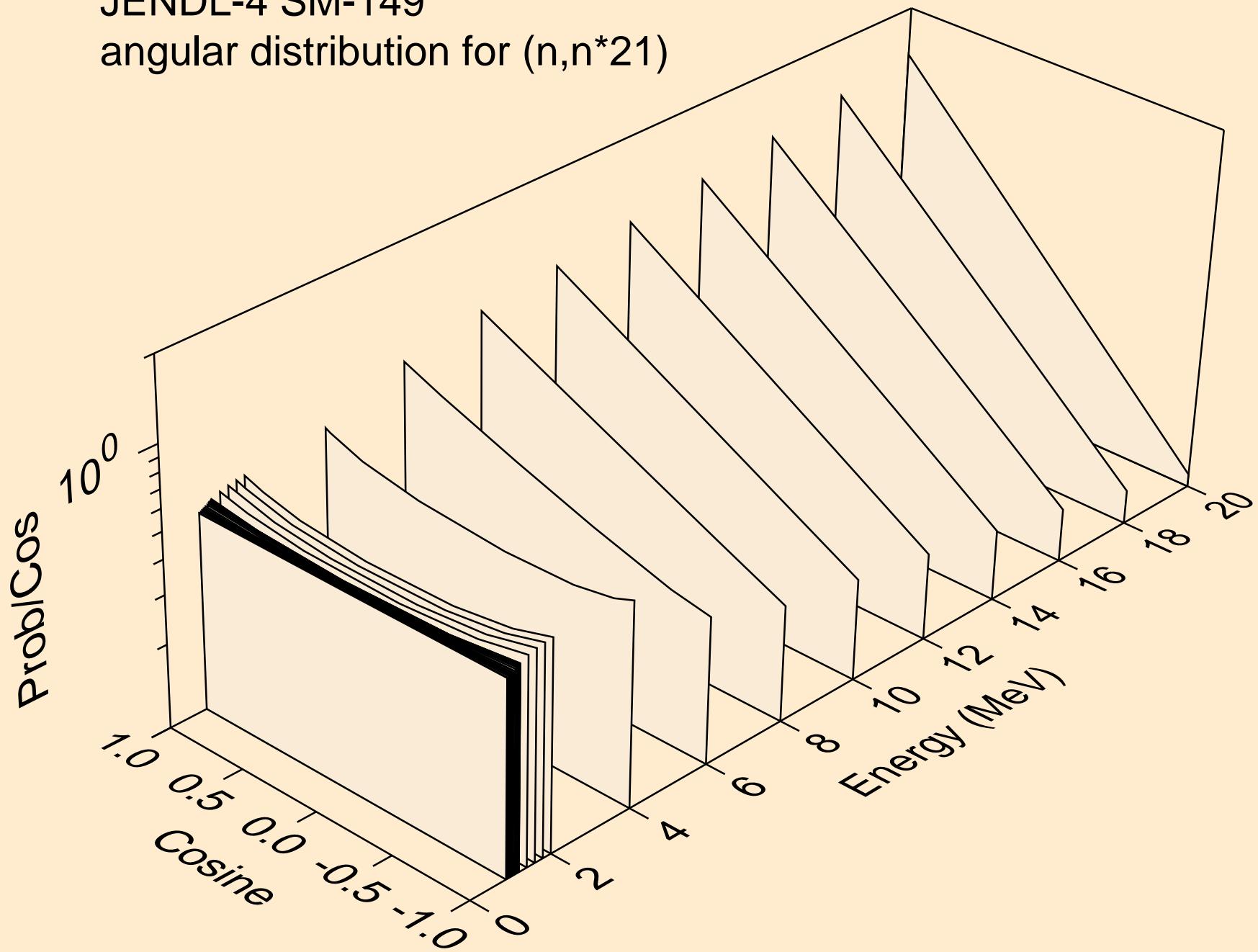
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angular distribution for  $(n,n^*19)$



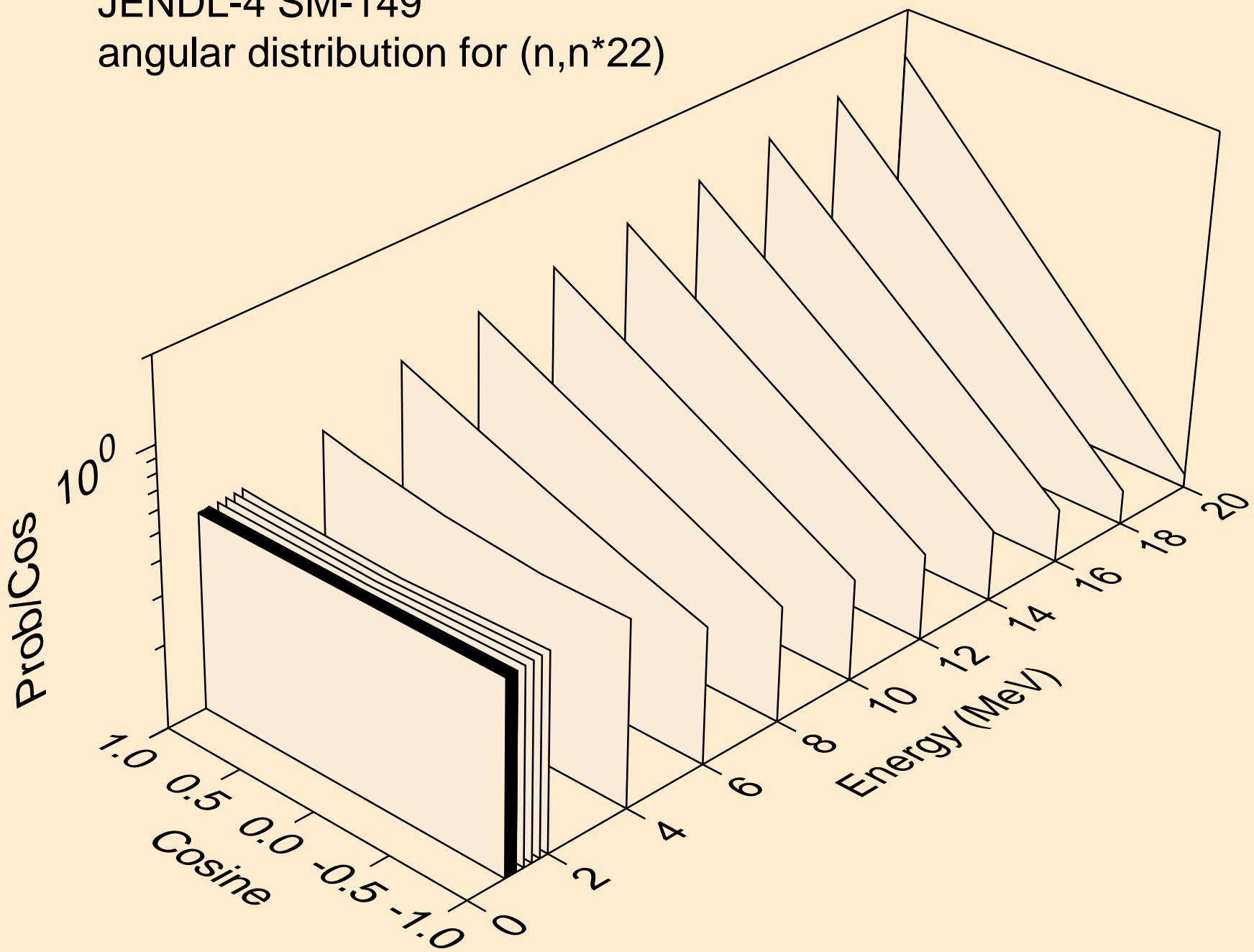
JENDL-4 SM-149  
angular distribution for (n,n\*20)



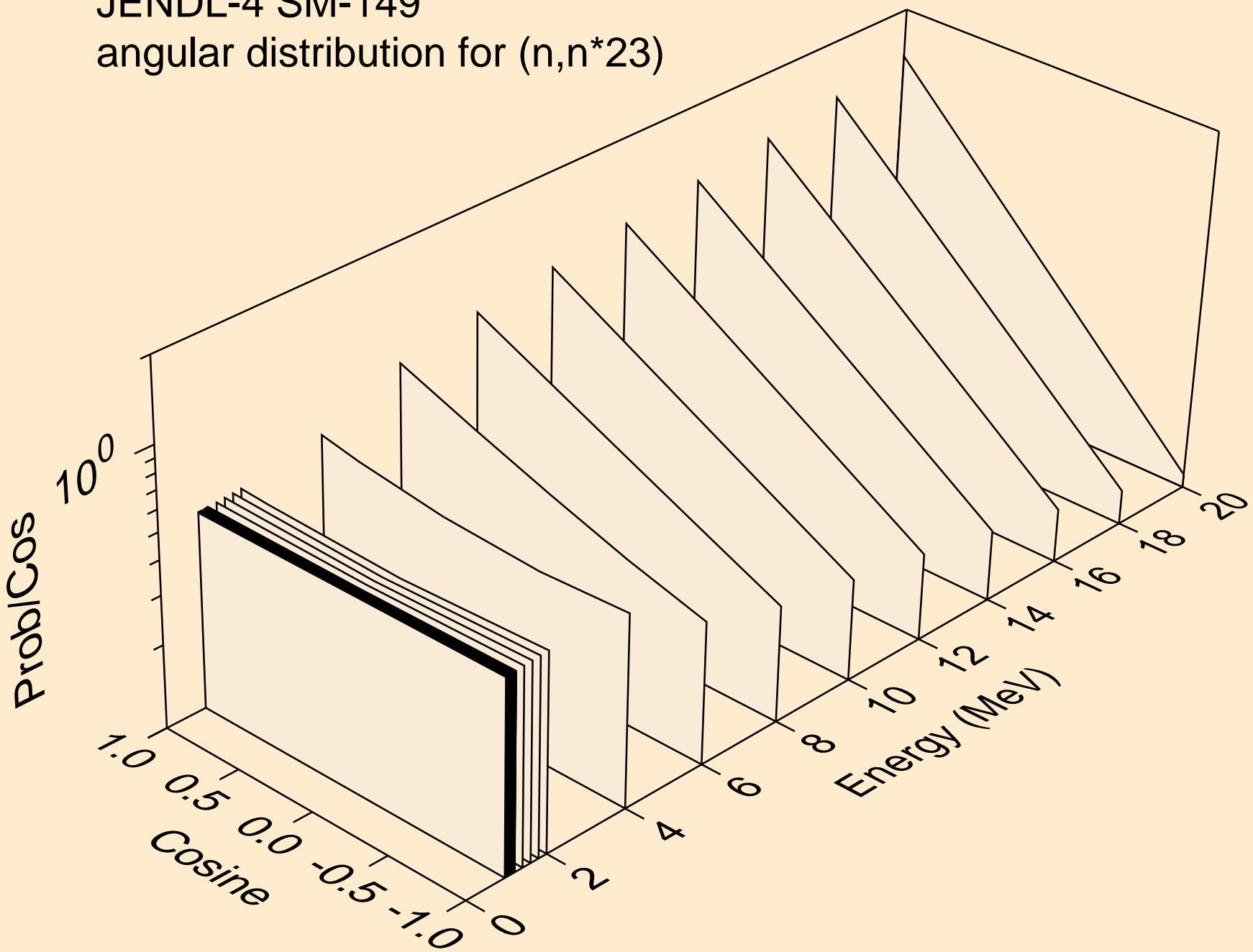
JENDL-4 SM-149  
angular distribution for ( $n,n^*$ )21



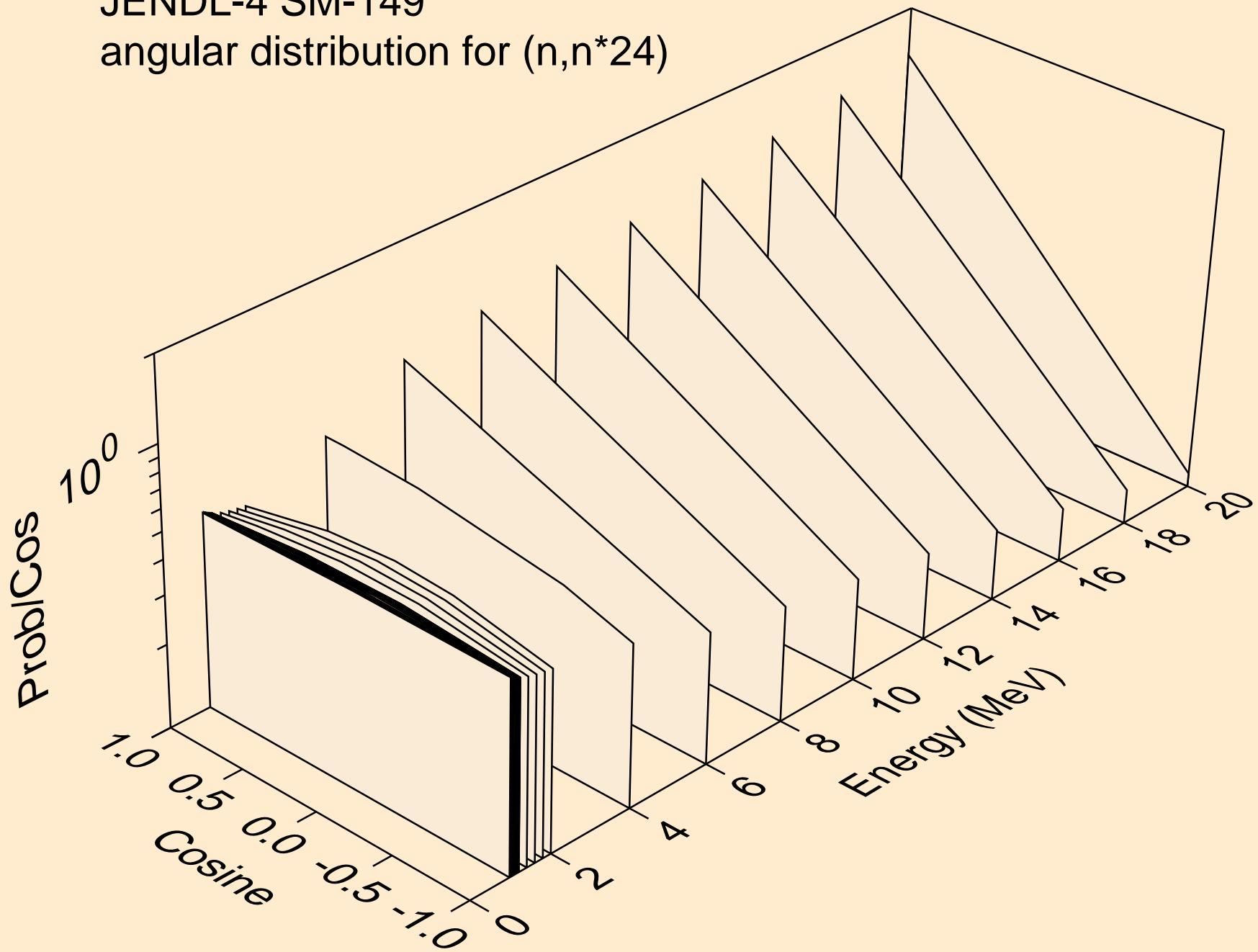
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angular distribution for  $(n,n^*22)$



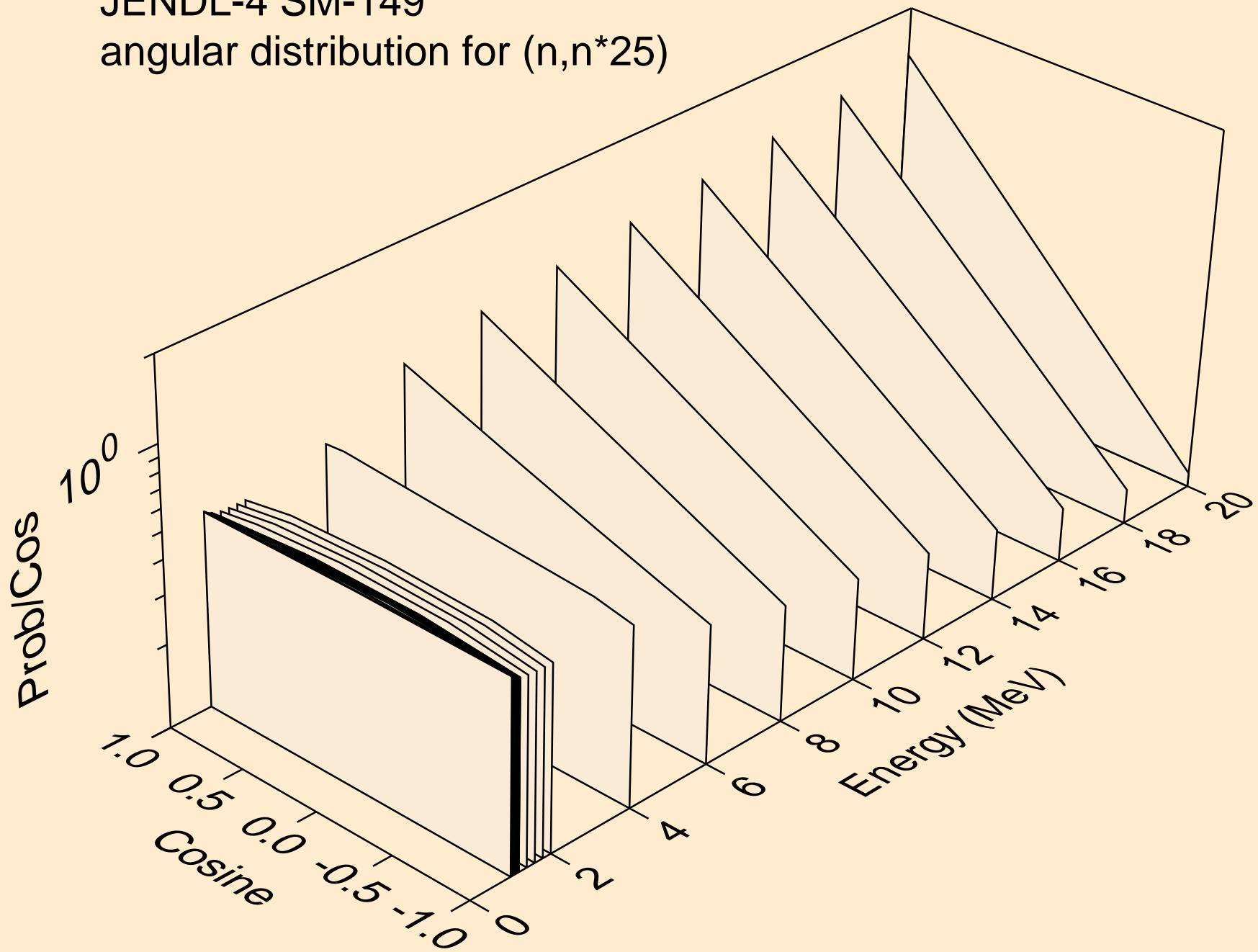
JENDL-4 SM-149  
angular distribution for ( $n, n^* 23$ )



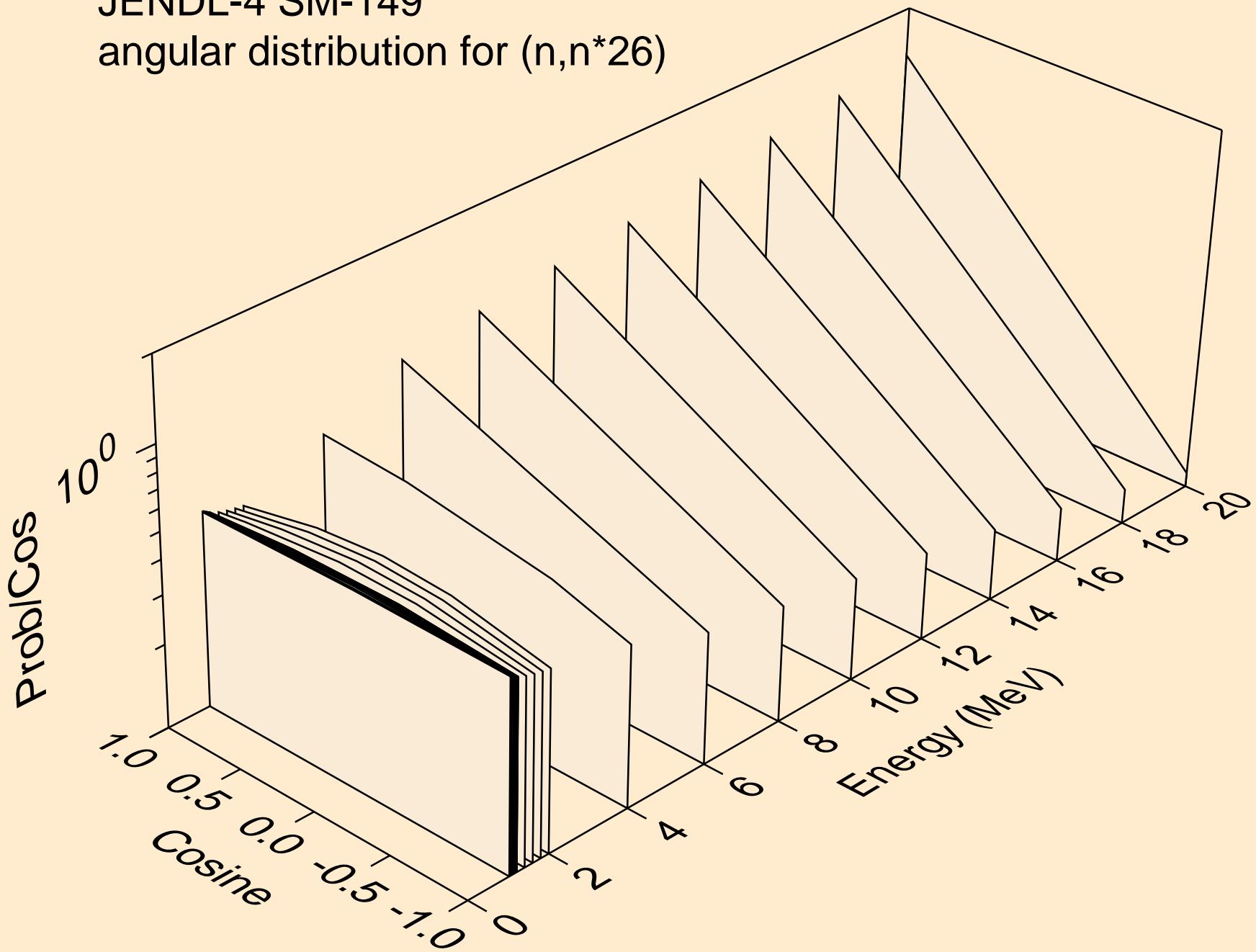
JENDL-4 SM-149  
angular distribution for ( $n, n^* 24$ )



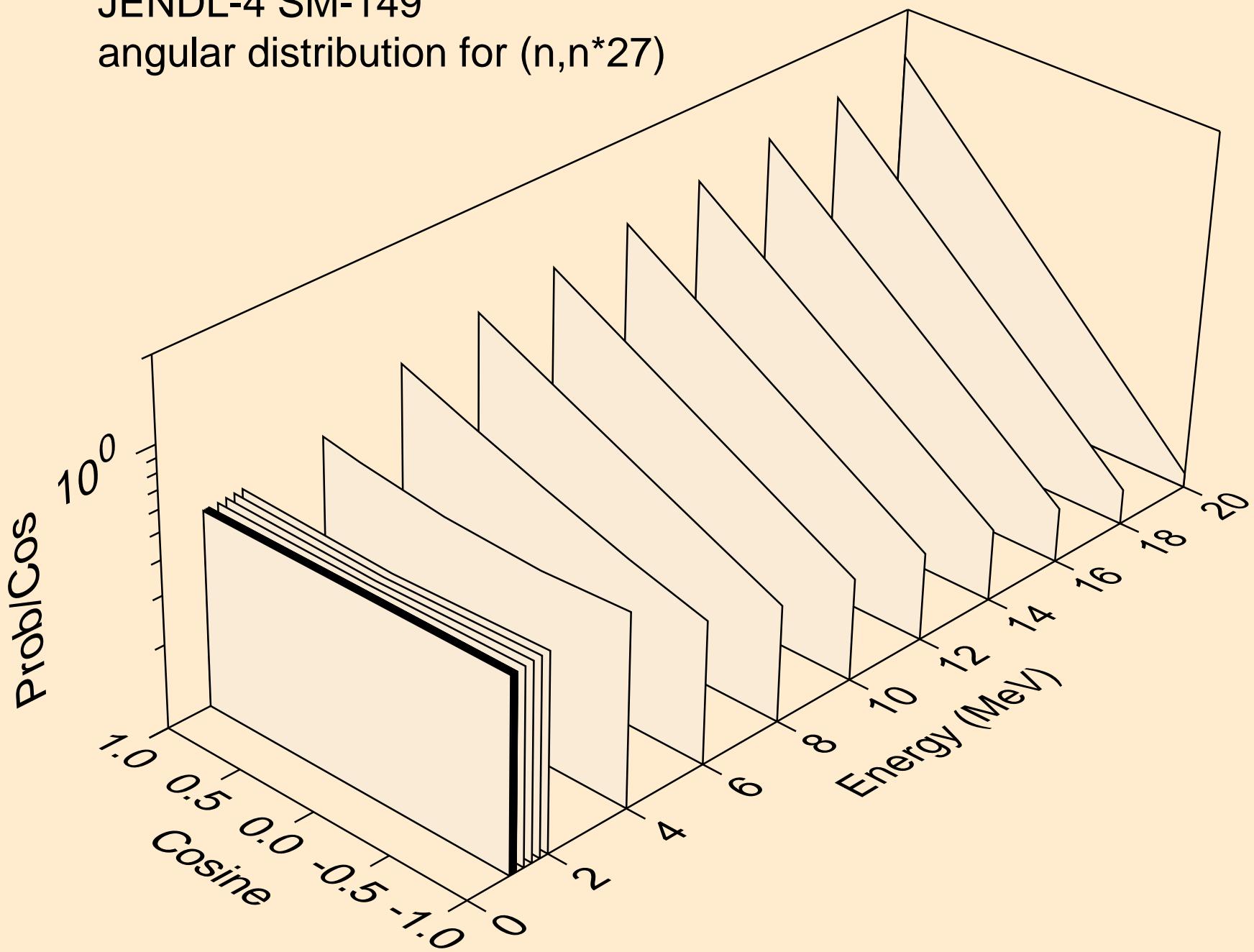
JENDL-4 SM-149  
angular distribution for ( $n, n^* 25$ )



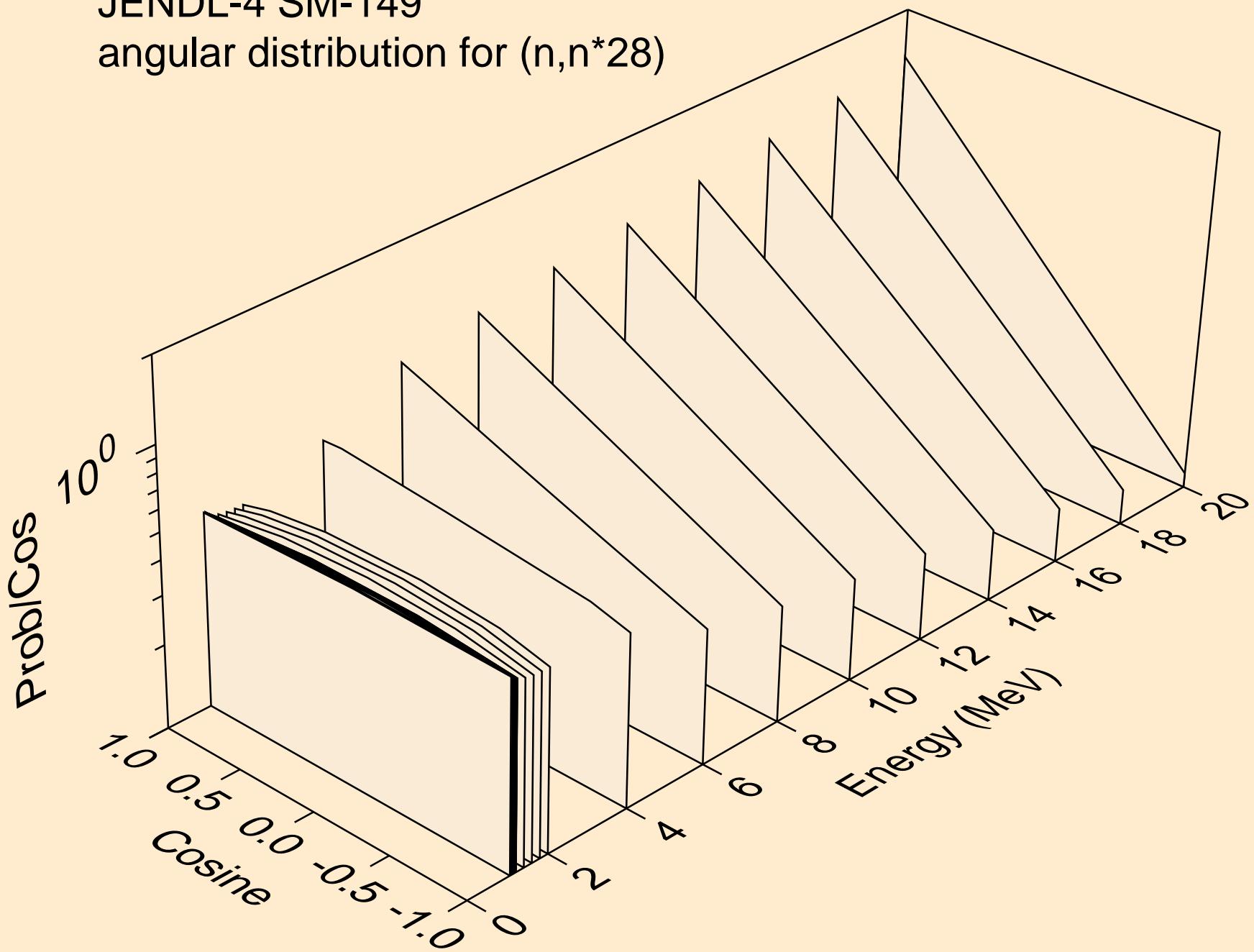
JENDL-4 SM-149  
angular distribution for (n,n\*26)



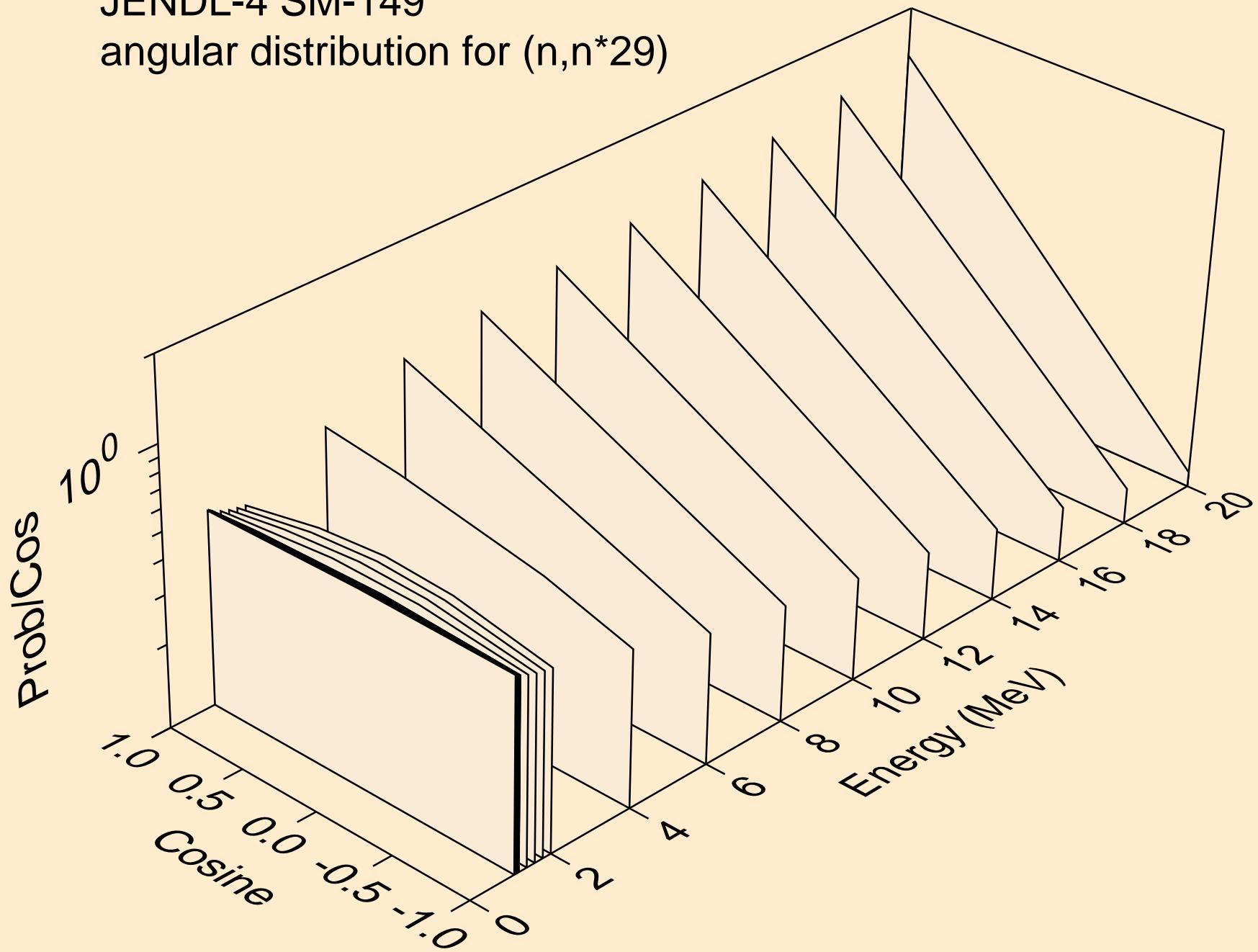
JENDL-4 SM-149  
angular distribution for ( $n, n^* 27$ )



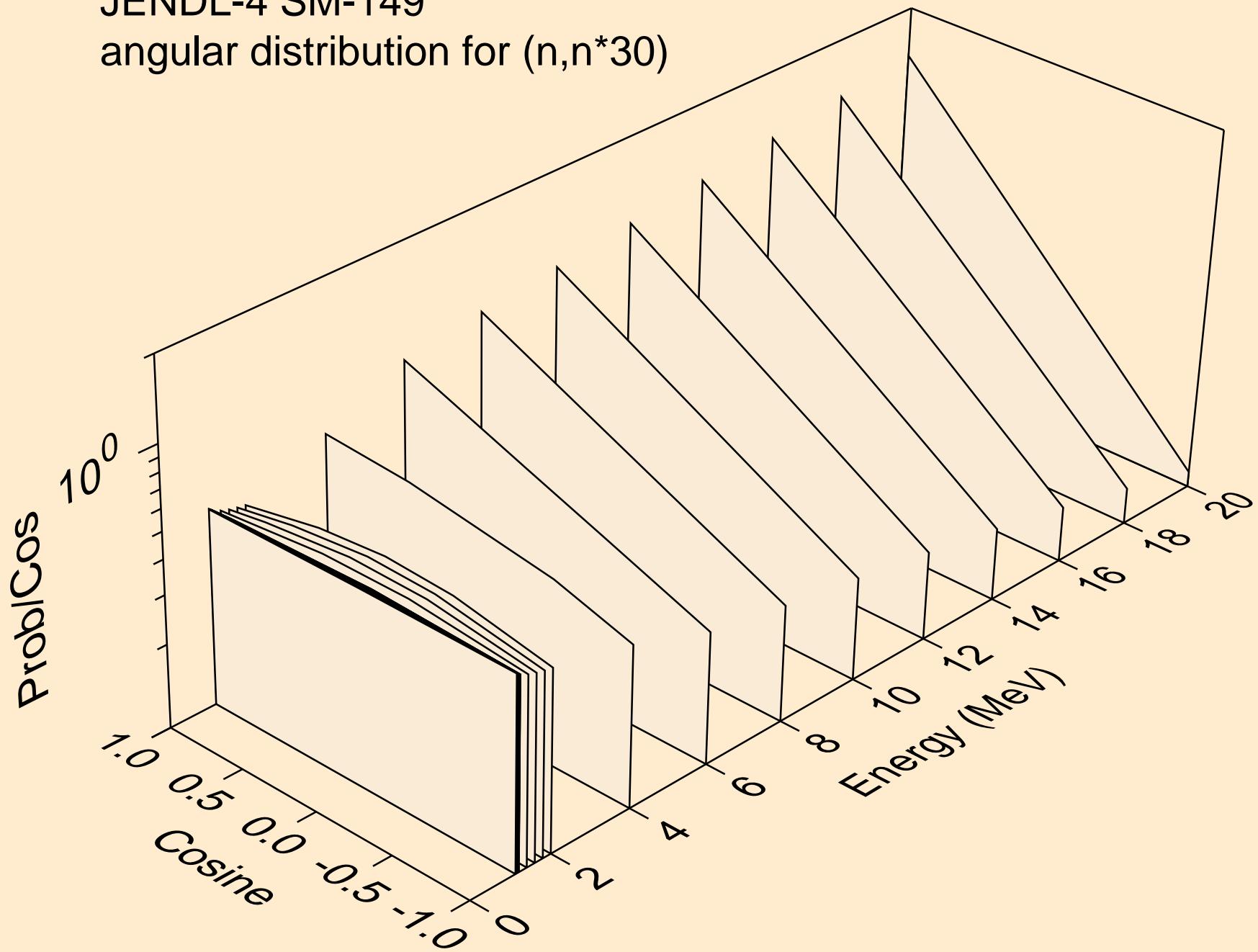
JENDL-4 SM-149  
angular distribution for  $(n,n^*28)$



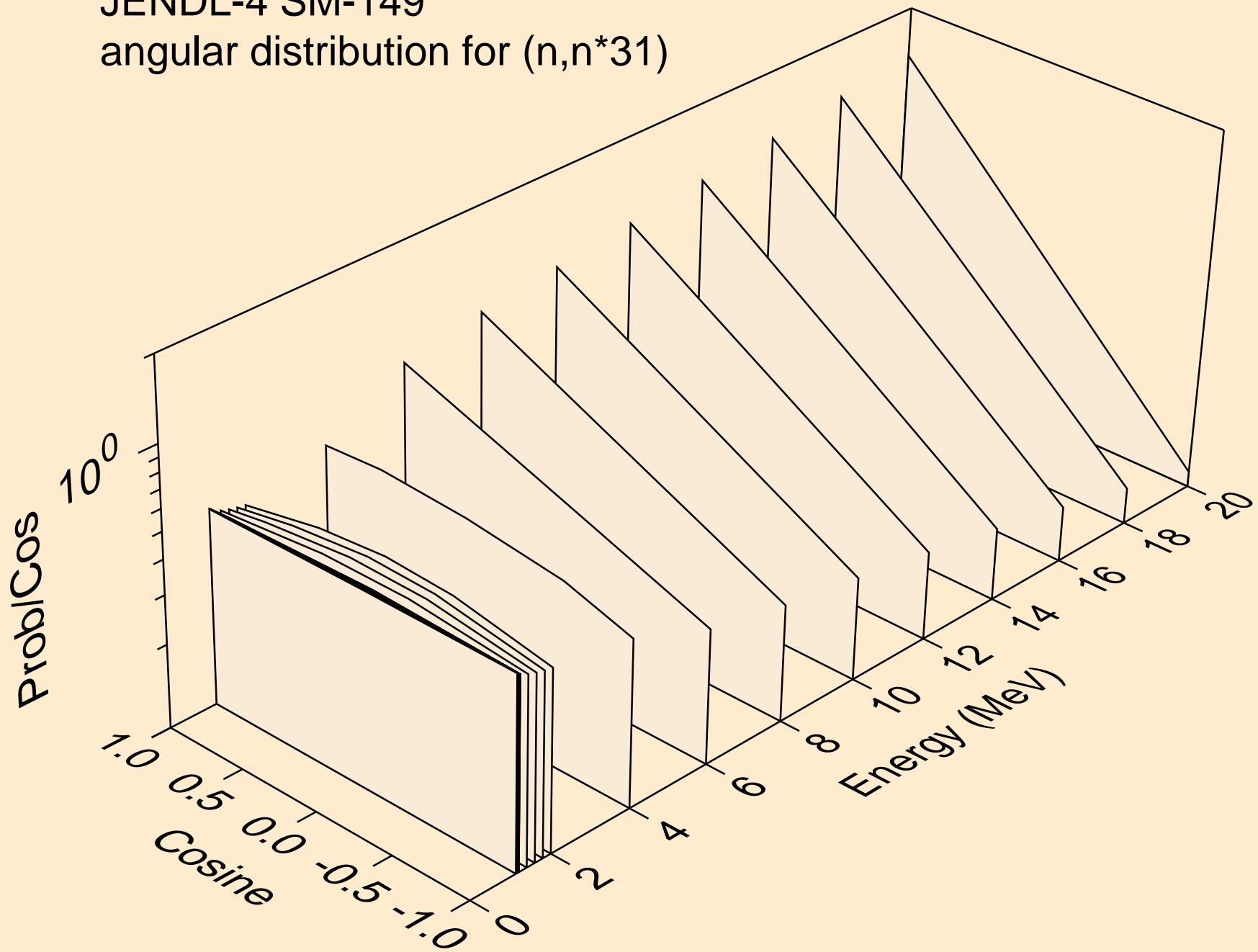
JENDL-4 SM-149  
angular distribution for  $(n,n^*29)$



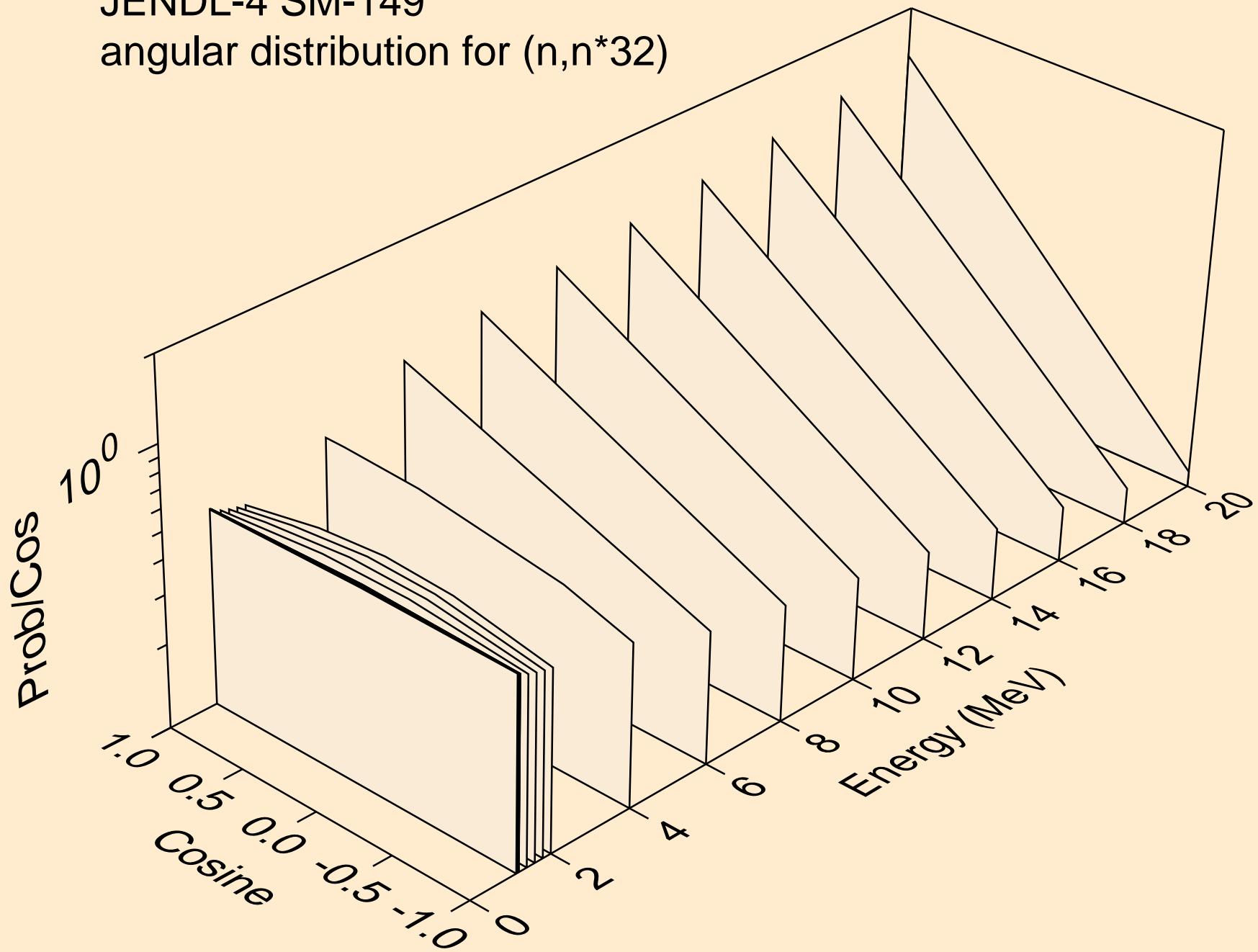
JENDL-4 SM-149  
angular distribution for  $(n,n^*30)$



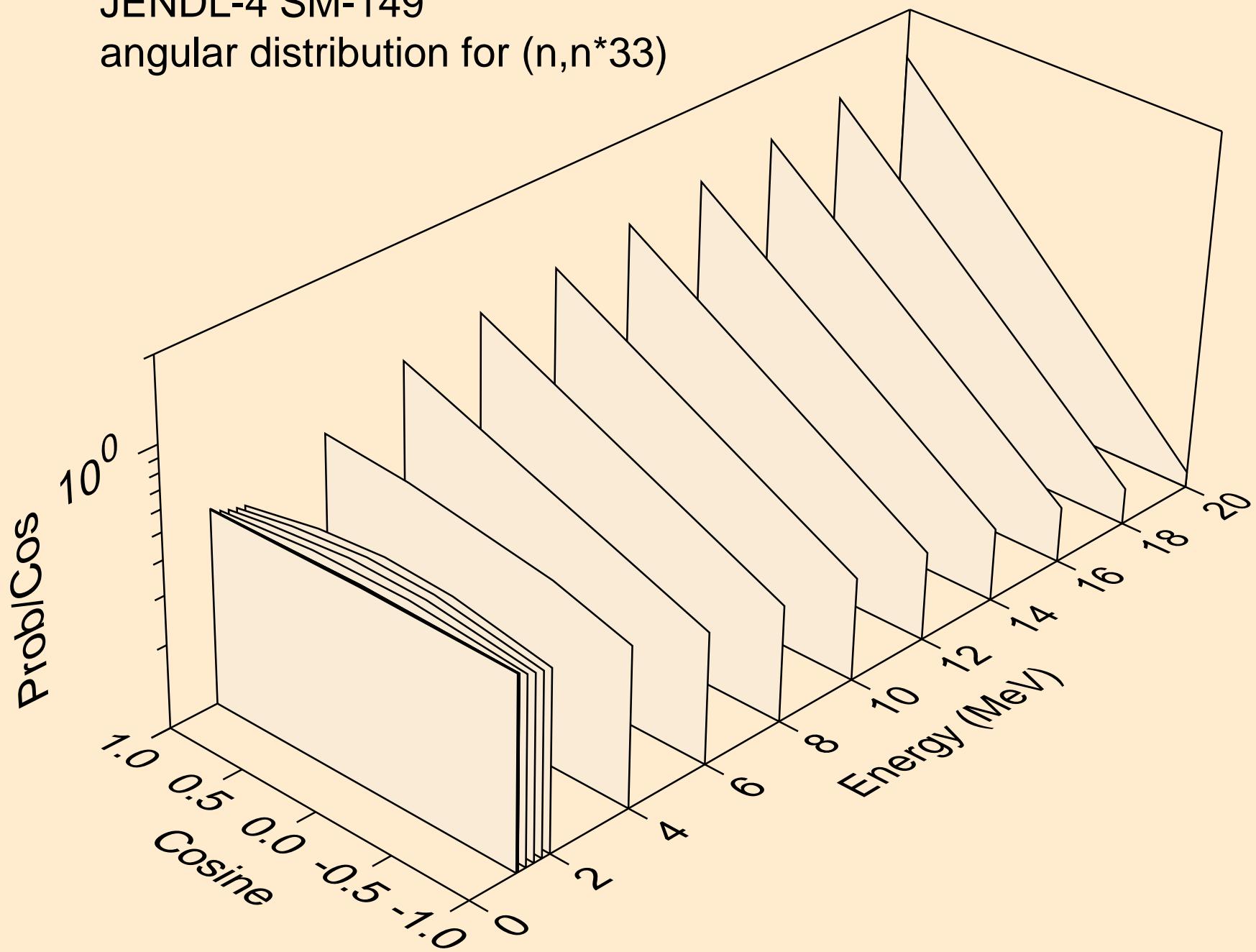
JENDL-4 SM-149  
angular distribution for ( $n,n^*$ 31)



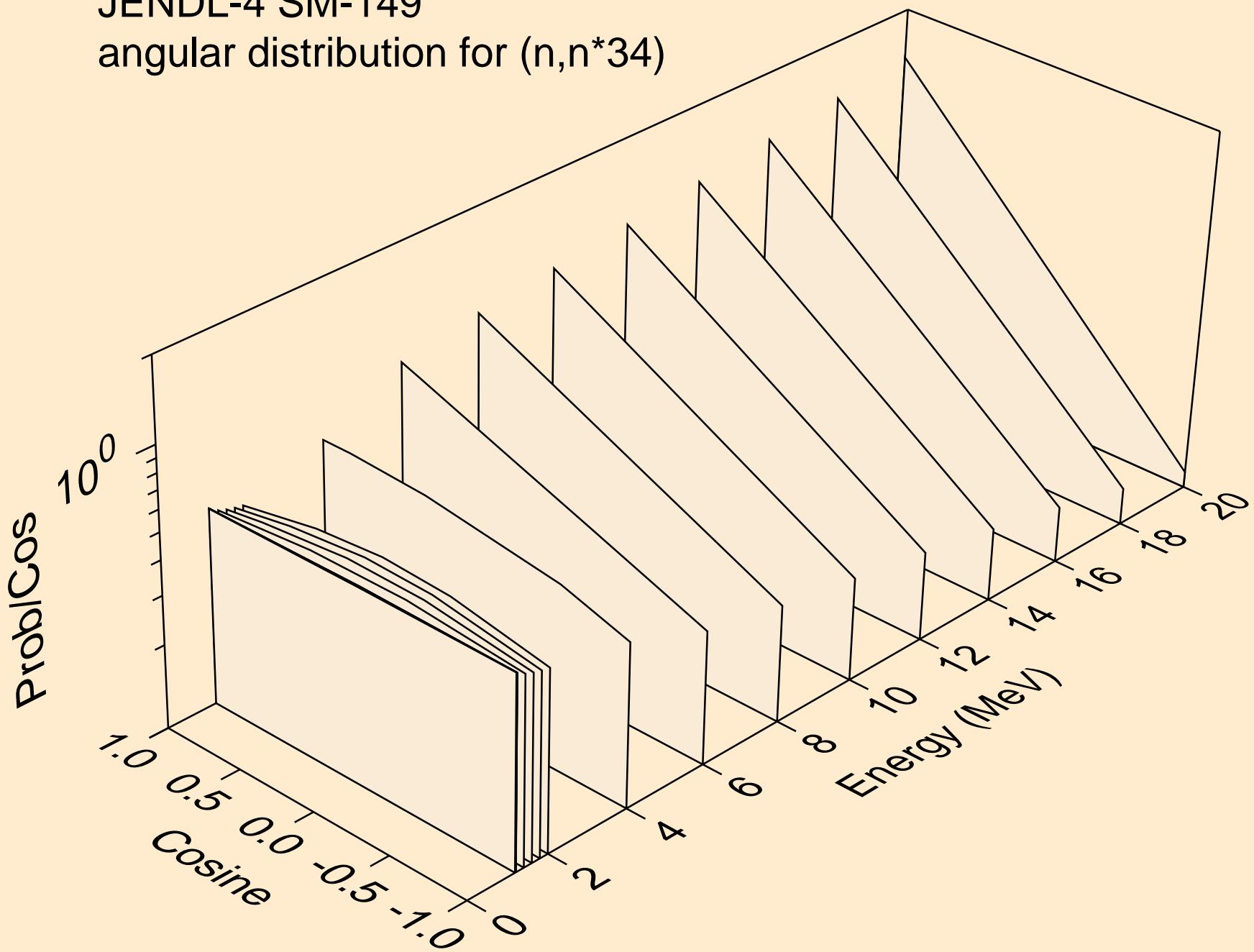
JENDL-4 SM-149  
angular distribution for  $(n,n^*32)$



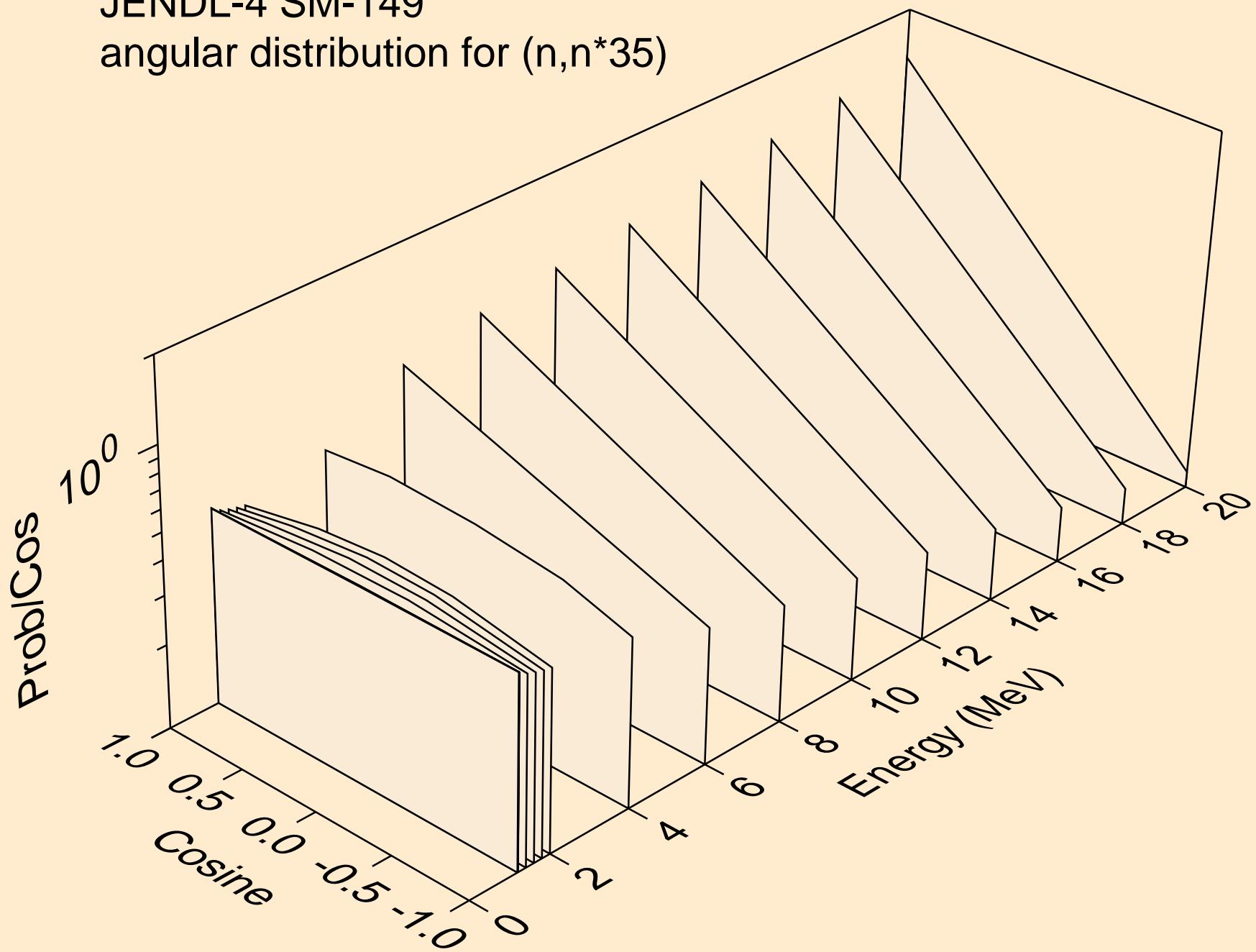
JENDL-4 SM-149  
angular distribution for ( $n, n^* 33$ )



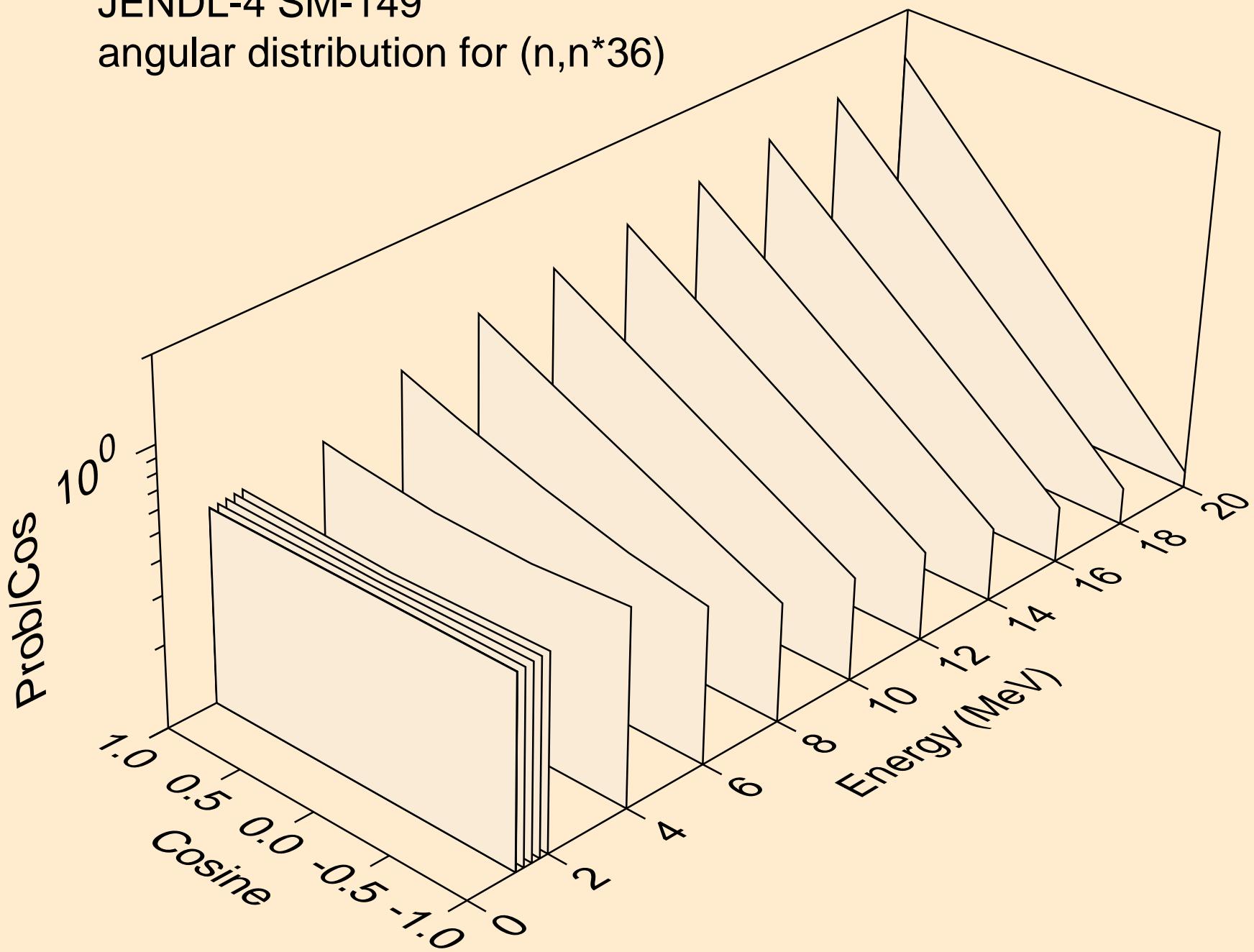
JENDL-4 SM-149  
angular distribution for ( $n, n^* 34$ )



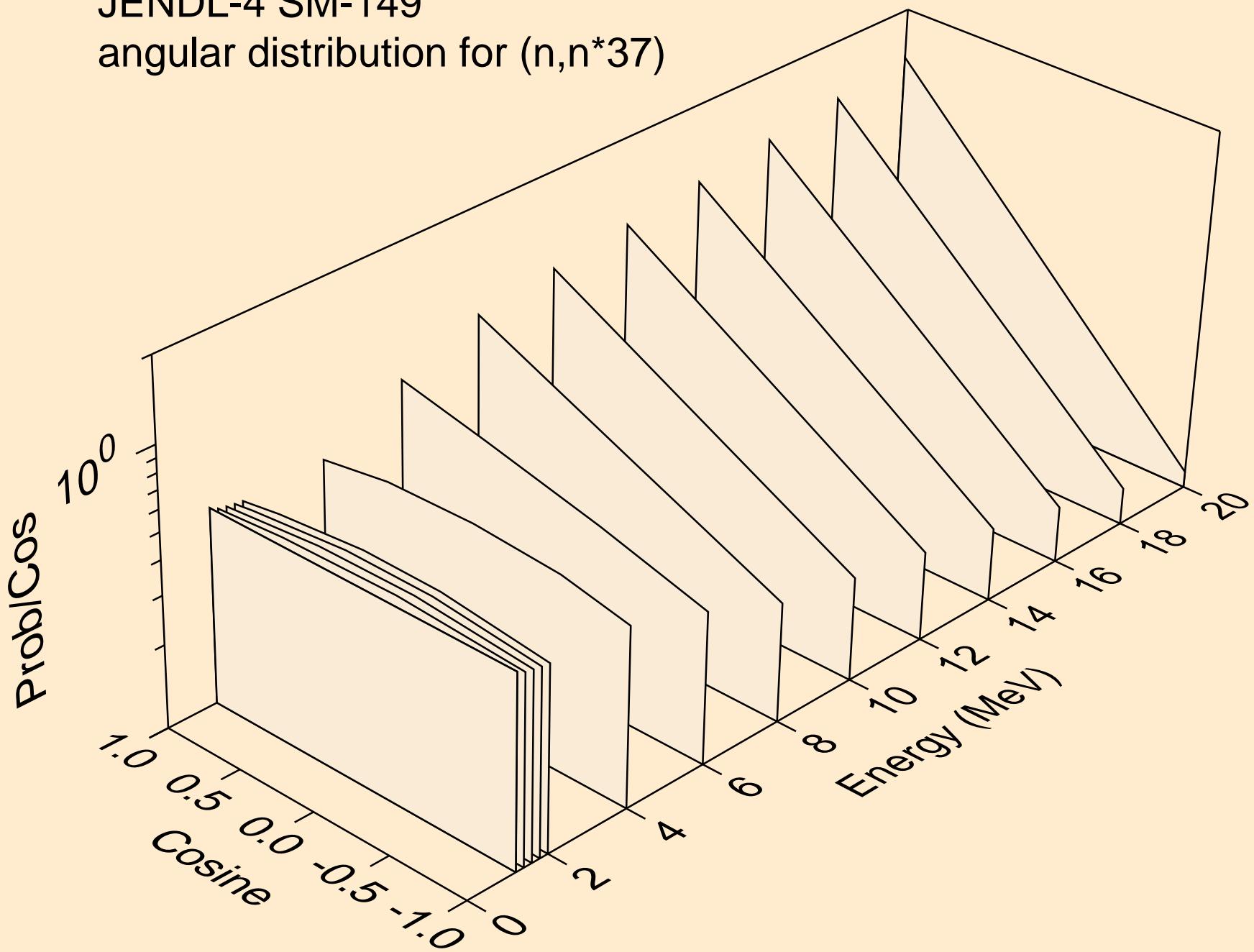
JENDL-4 SM-149  
angular distribution for  $(n,n^*35)$



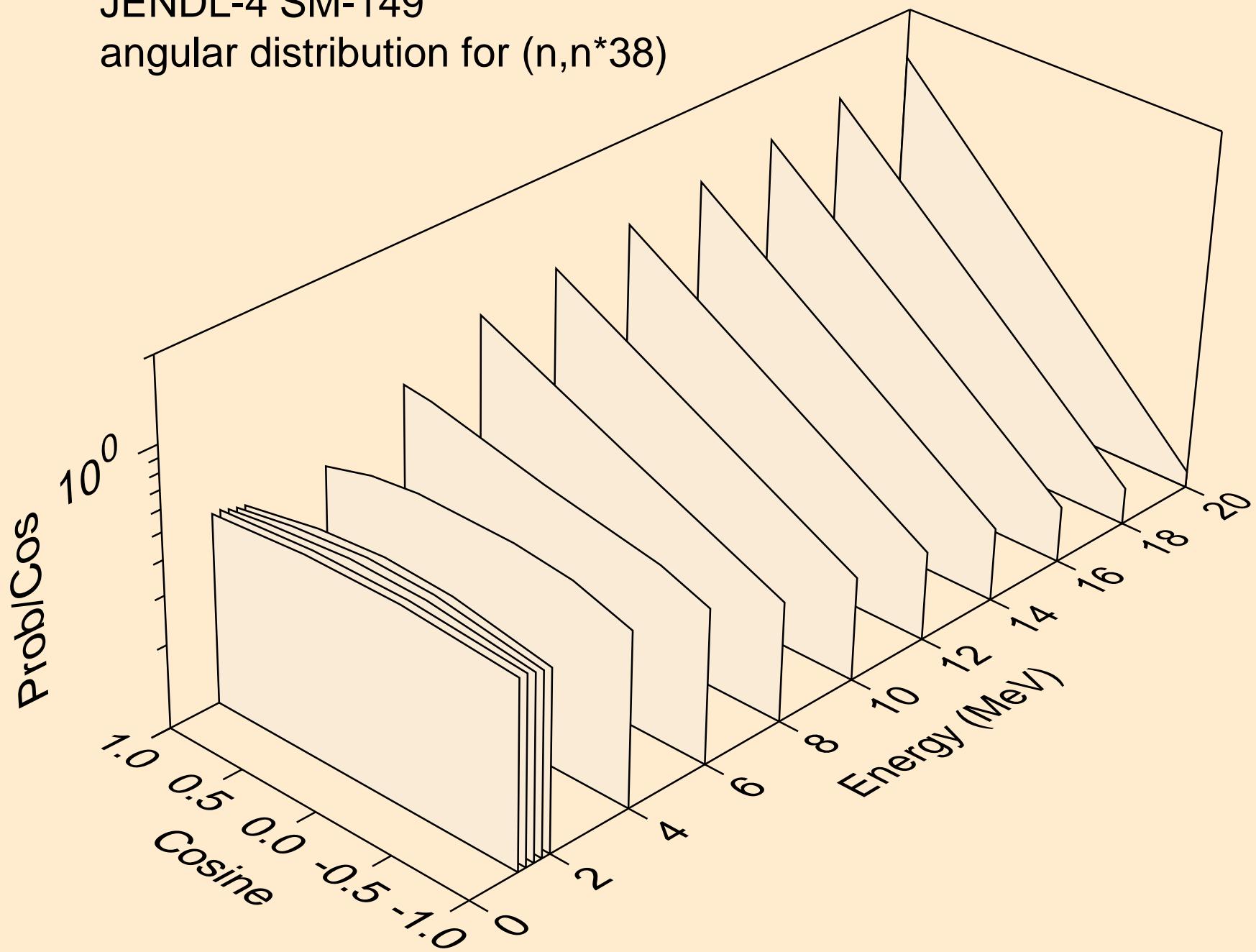
JENDL-4 SM-149  
angular distribution for  $(n,n^*36)$



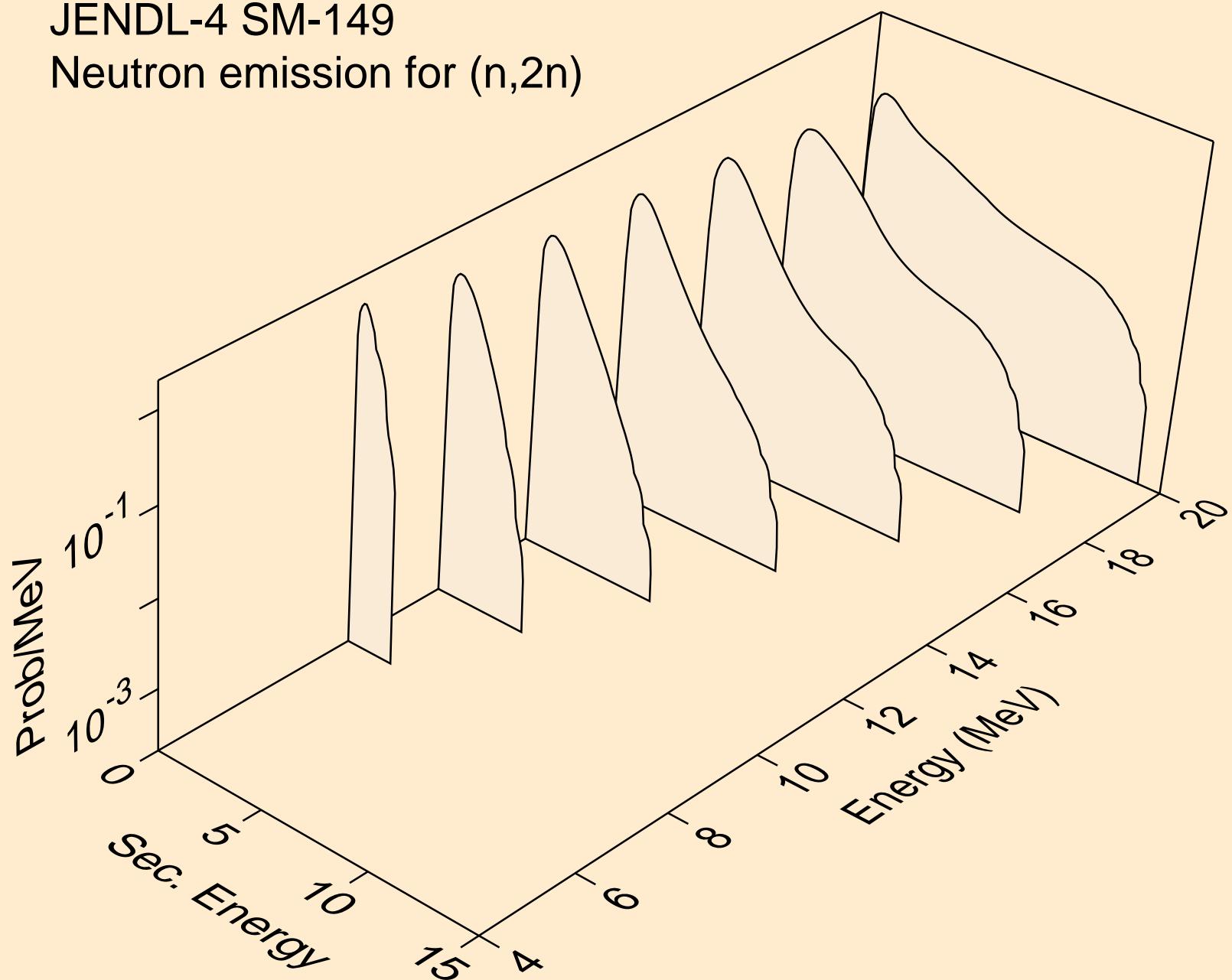
JENDL-4 SM-149  
angular distribution for ( $n, n^* 37$ )



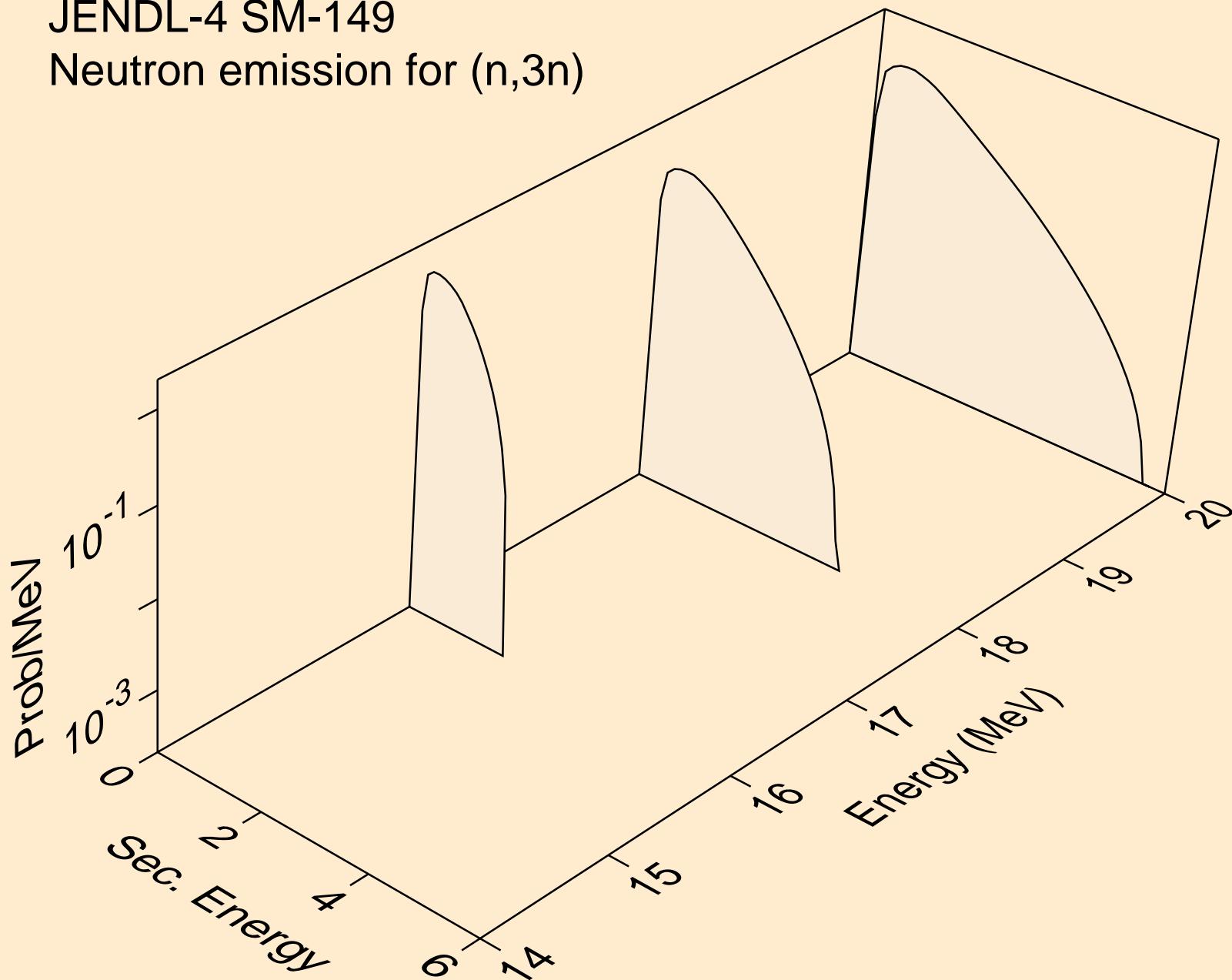
JENDL-4 SM-149  
angular distribution for  $(n,n^*38)$



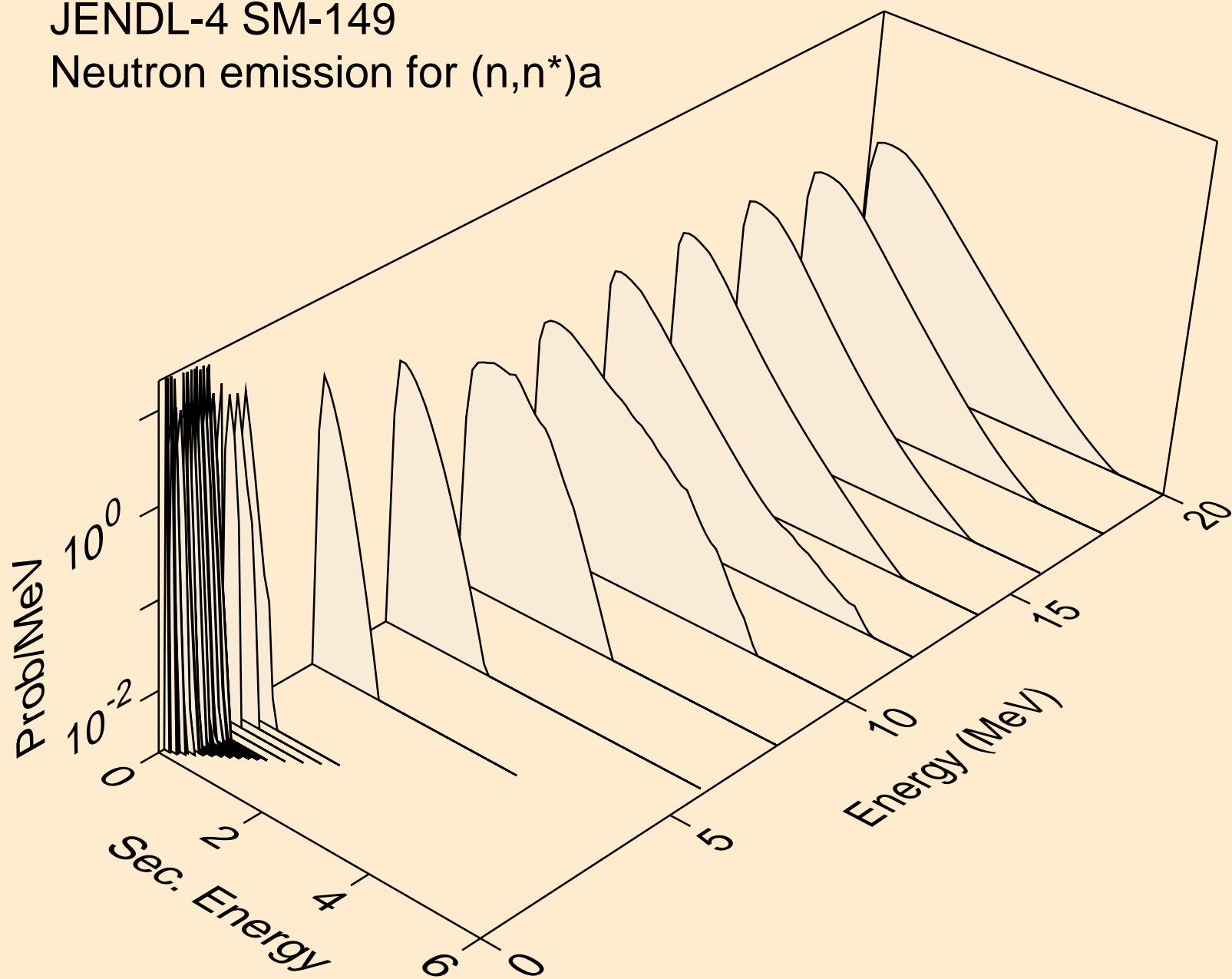
JENDL-4 SM-149  
Neutron emission for  $(n,2n)$



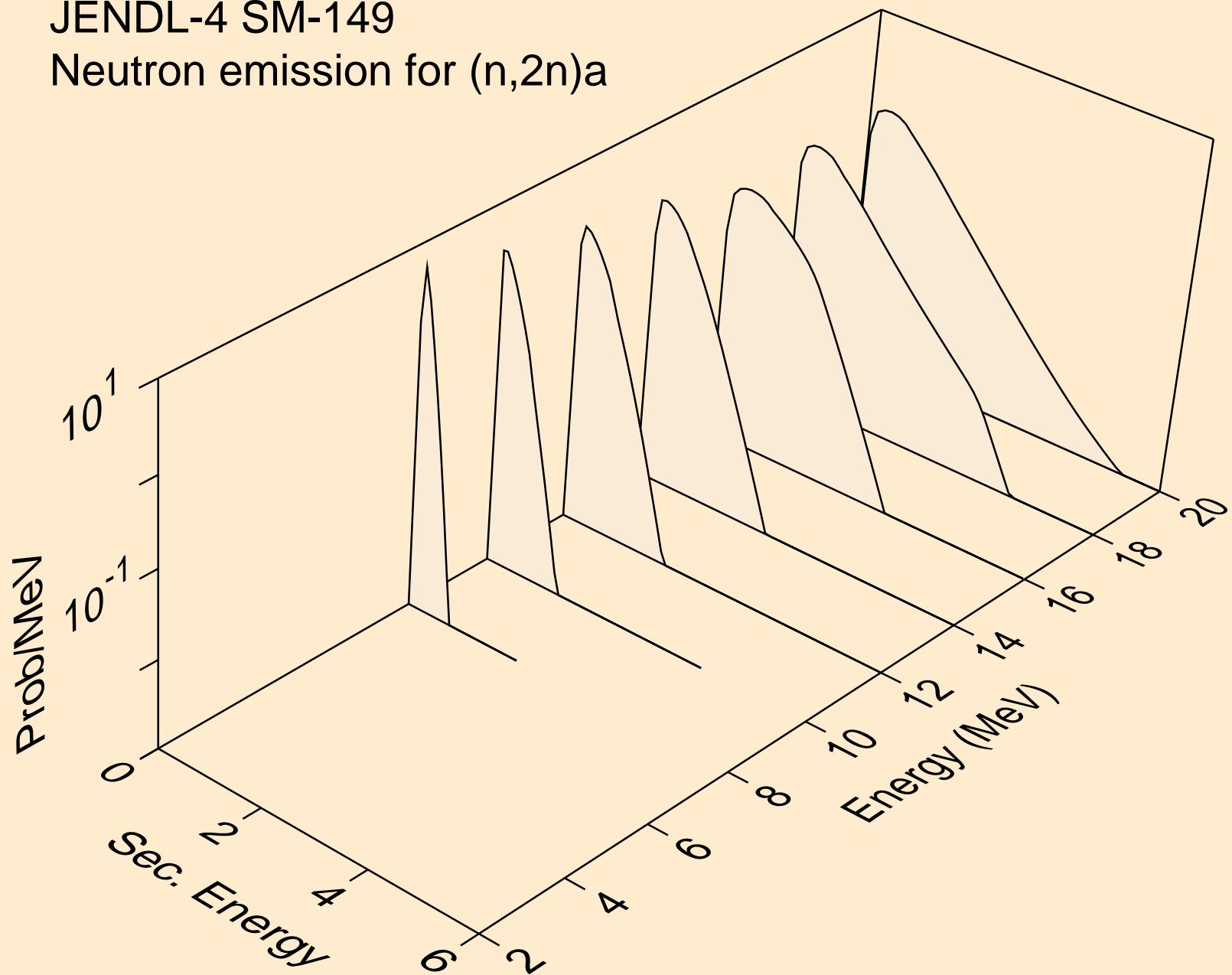
JENDL-4 SM-149  
Neutron emission for  $(n,3n)$



JENDL-4 SM-149  
Neutron emission for  $(n,n^*)a$

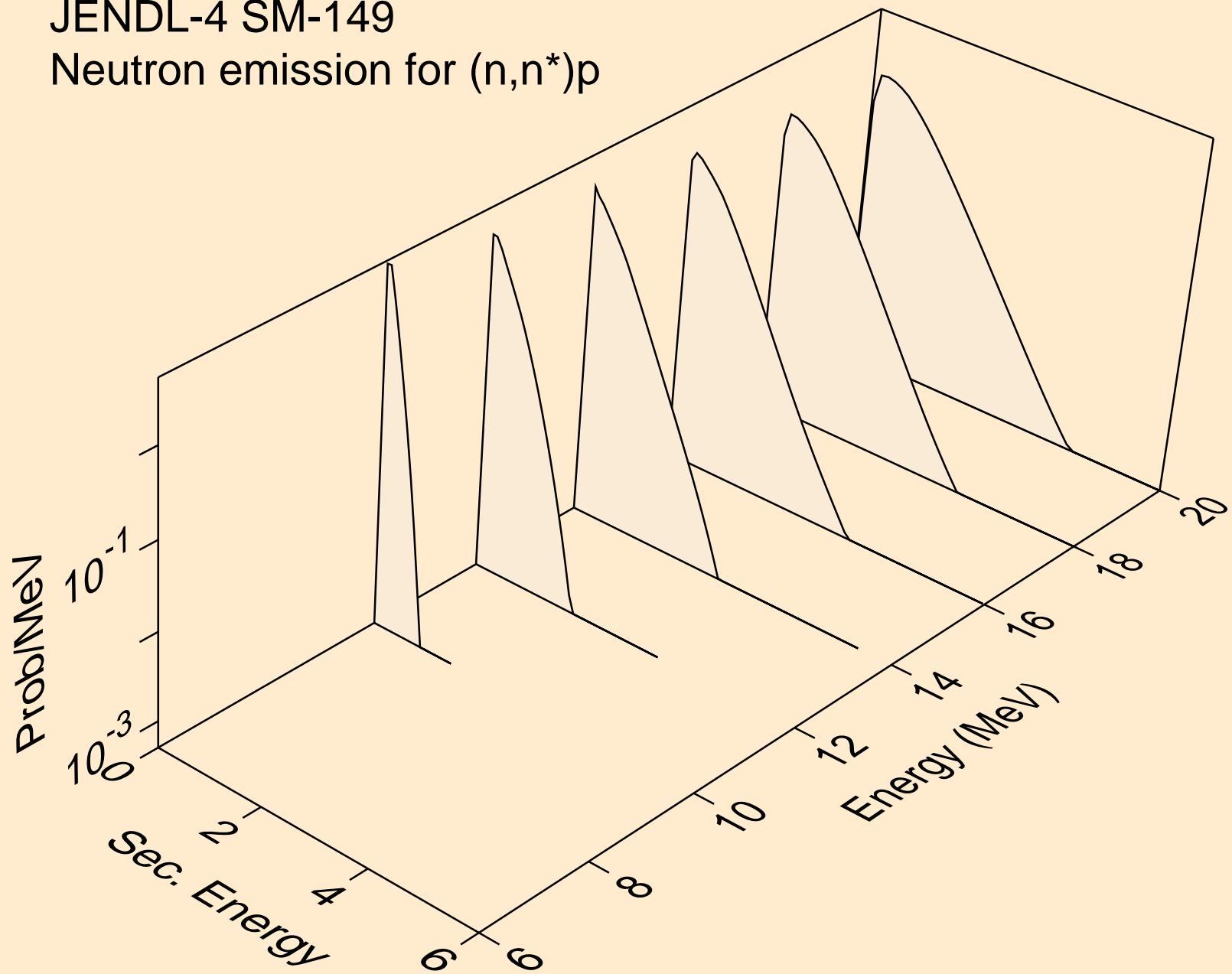


JENDL-4 SM-149  
Neutron emission for  $(n,2n)a$

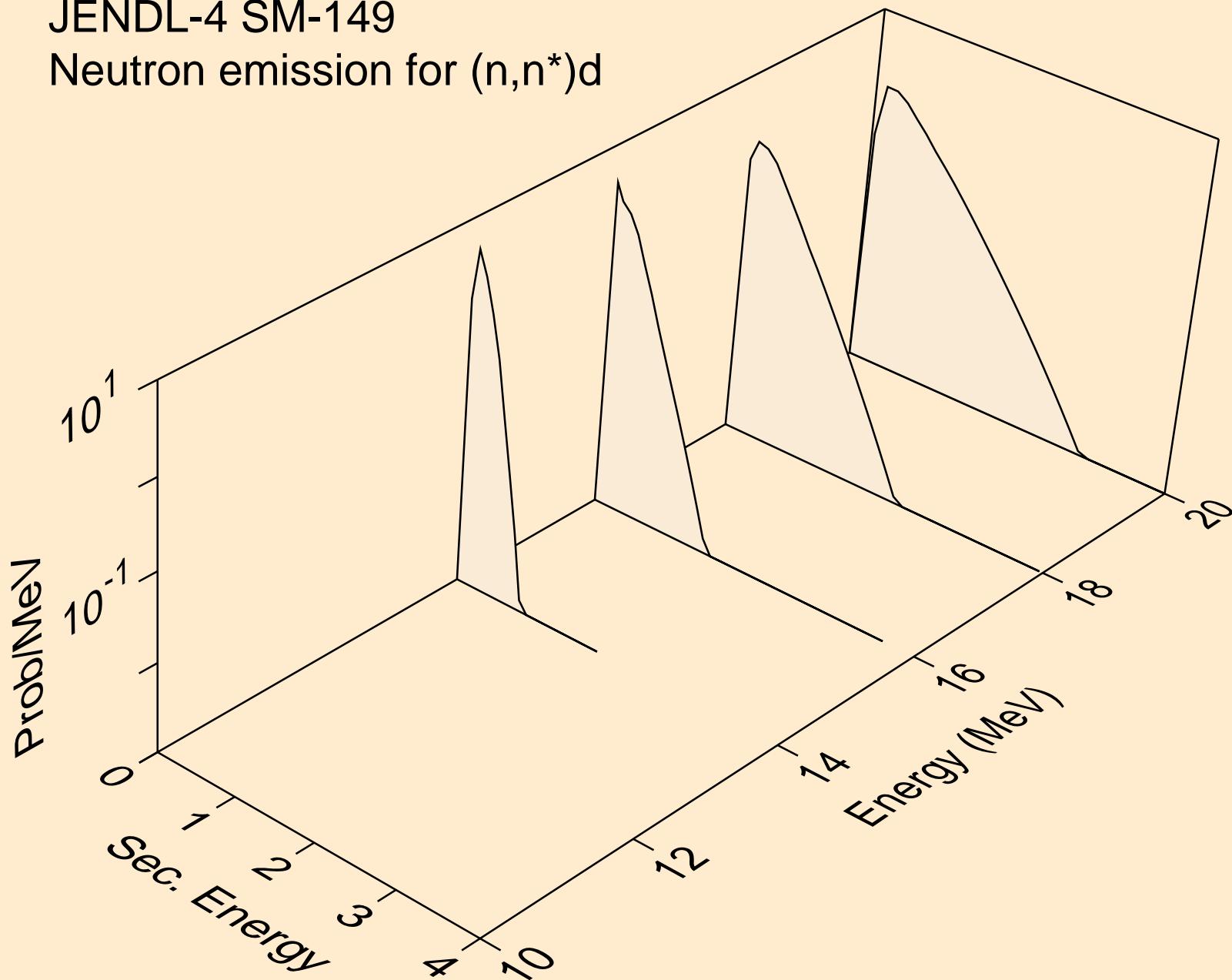


# JENDL-4 SM-149

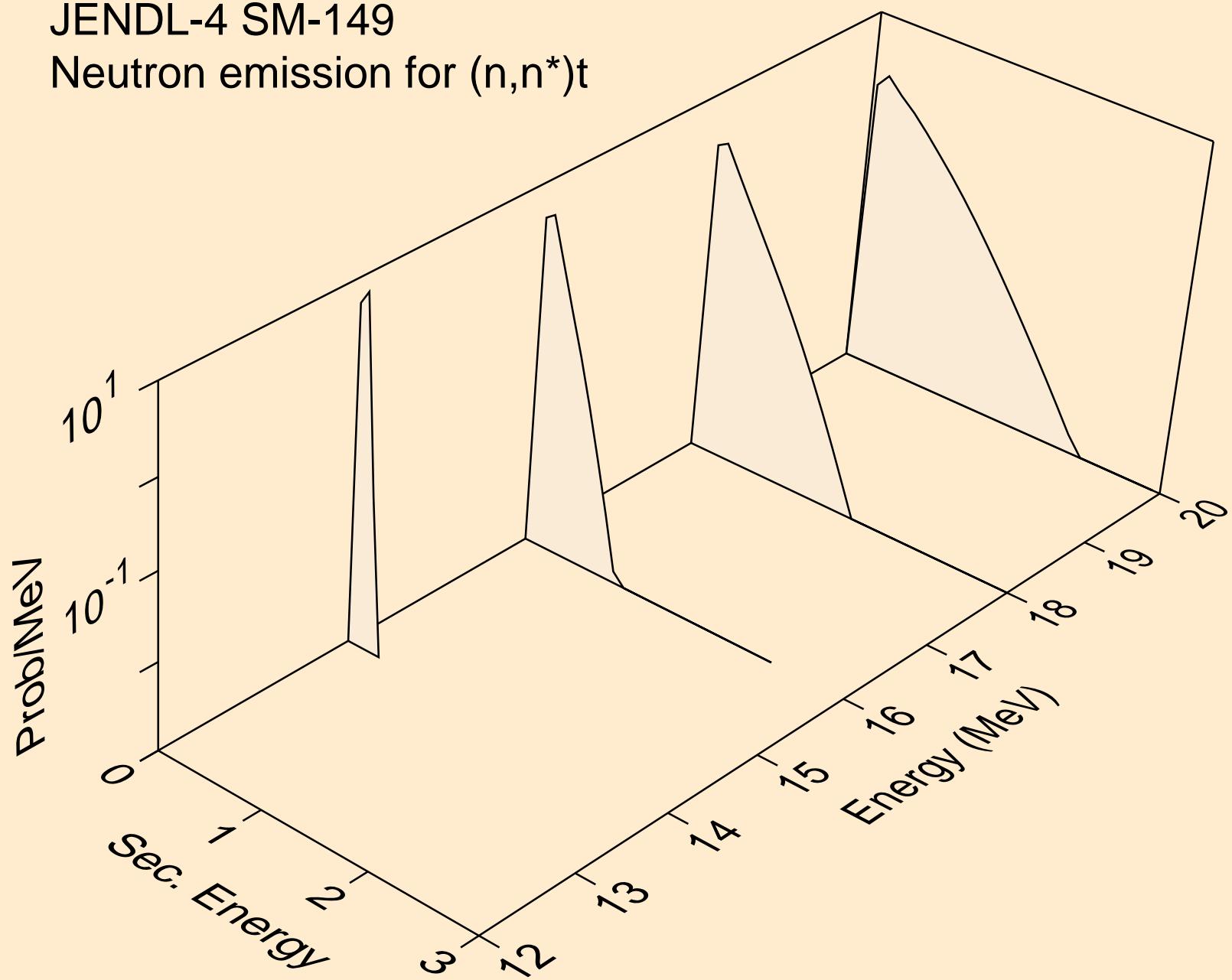
## Neutron emission for (n,n\*)p



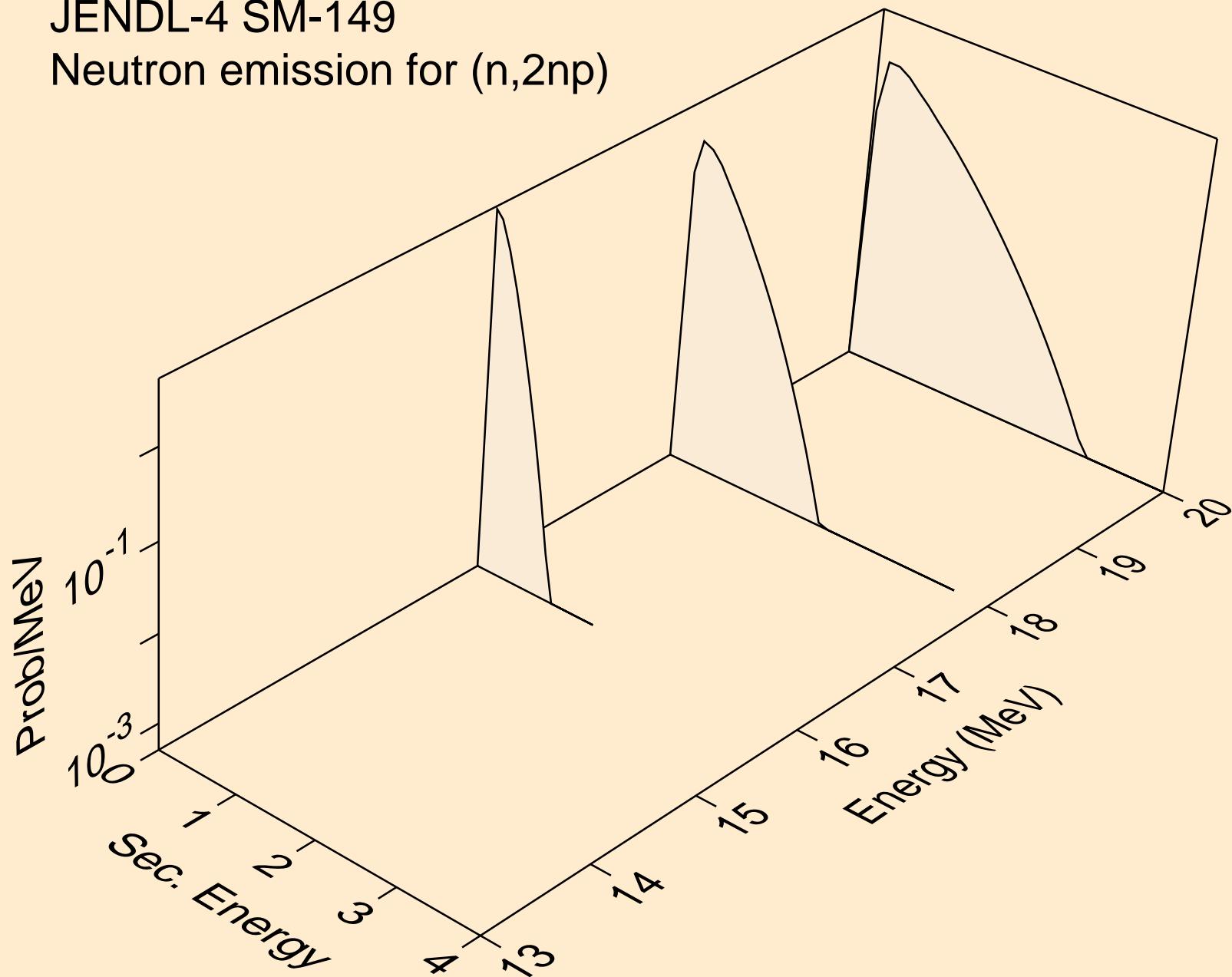
JENDL-4 SM-149  
Neutron emission for  $(n,n^*)d$



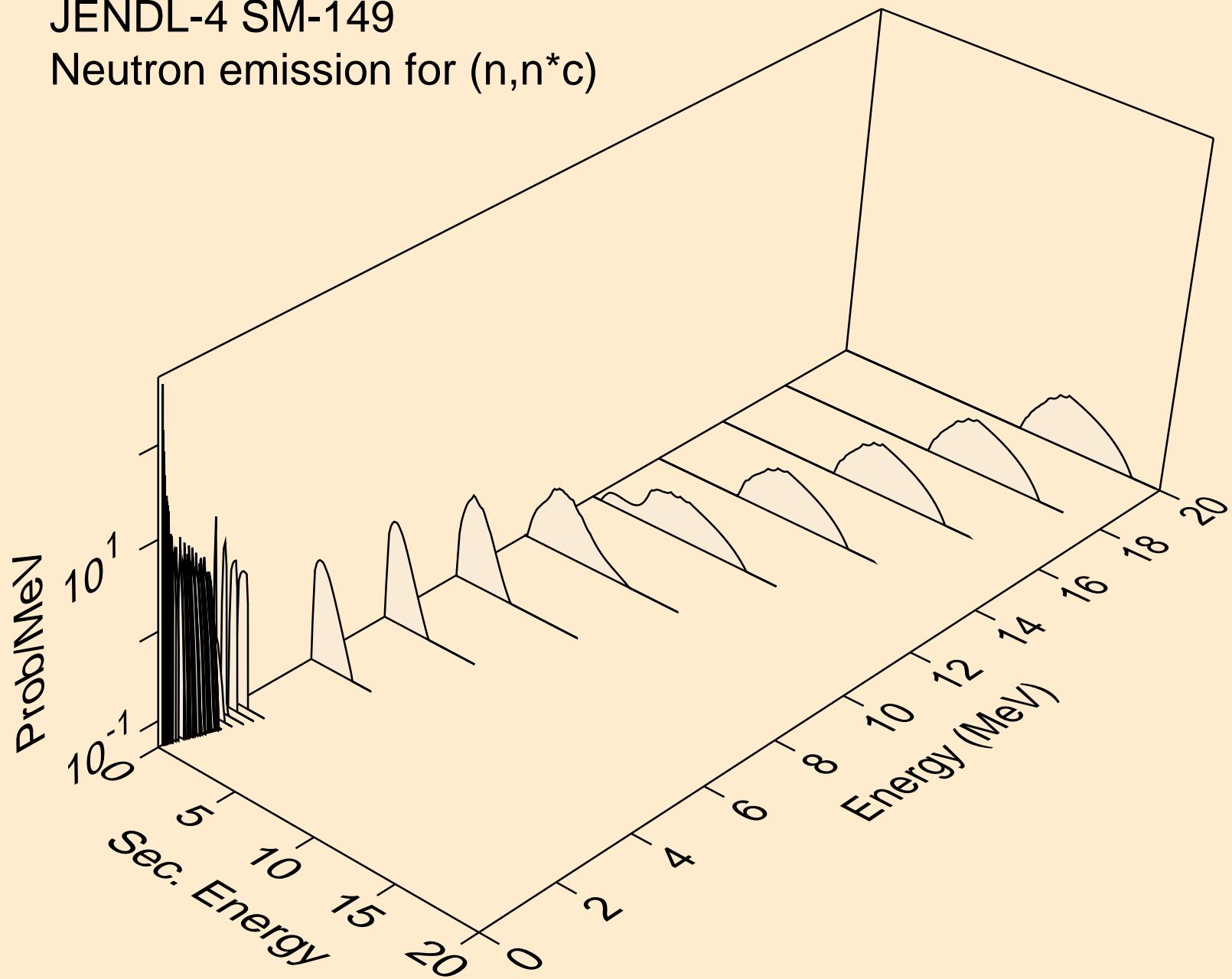
JENDL-4 SM-149  
Neutron emission for  $(n,n^*)t$



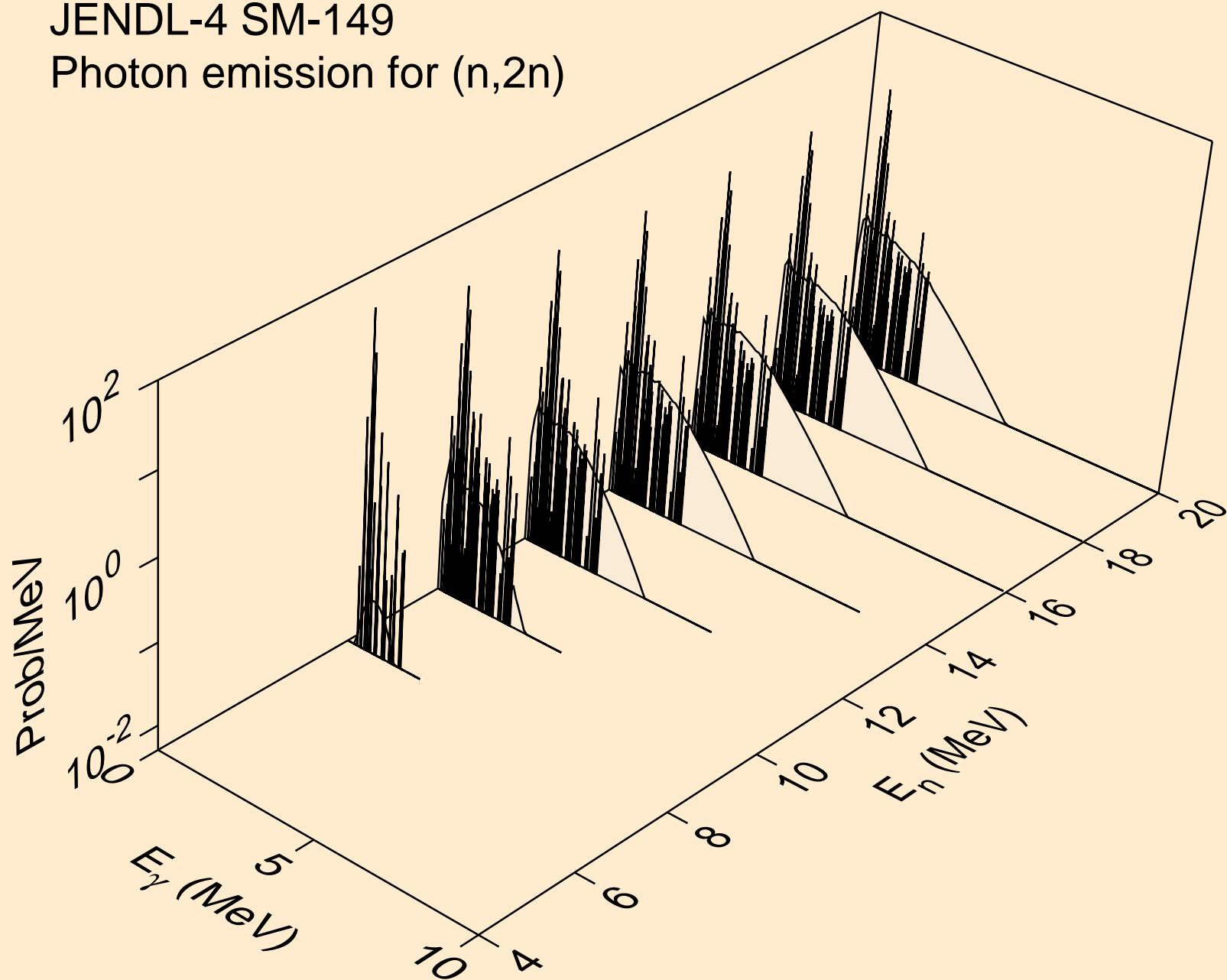
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Neutron emission for (n,2np)



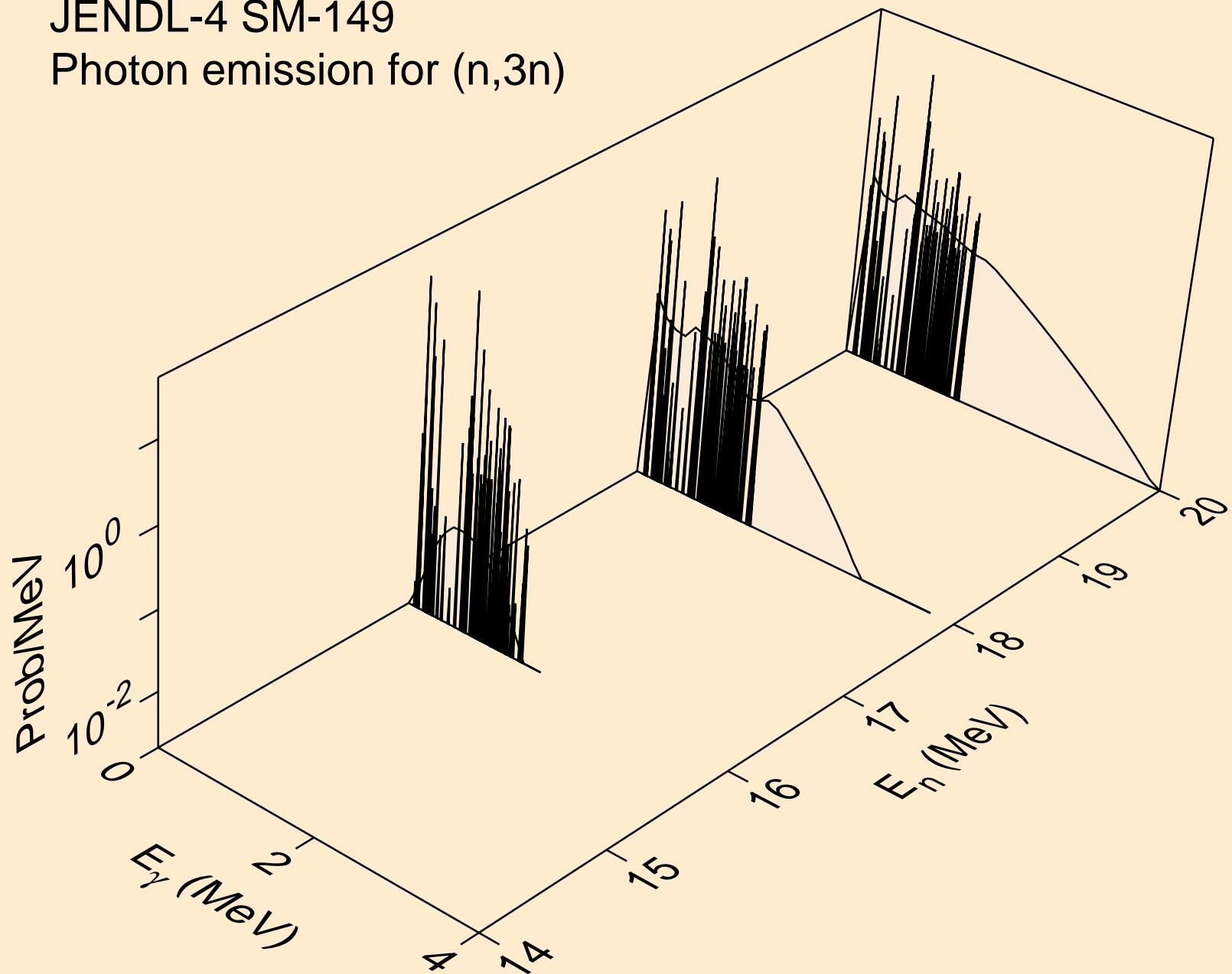
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Neutron emission for  $(n,n^*c)$



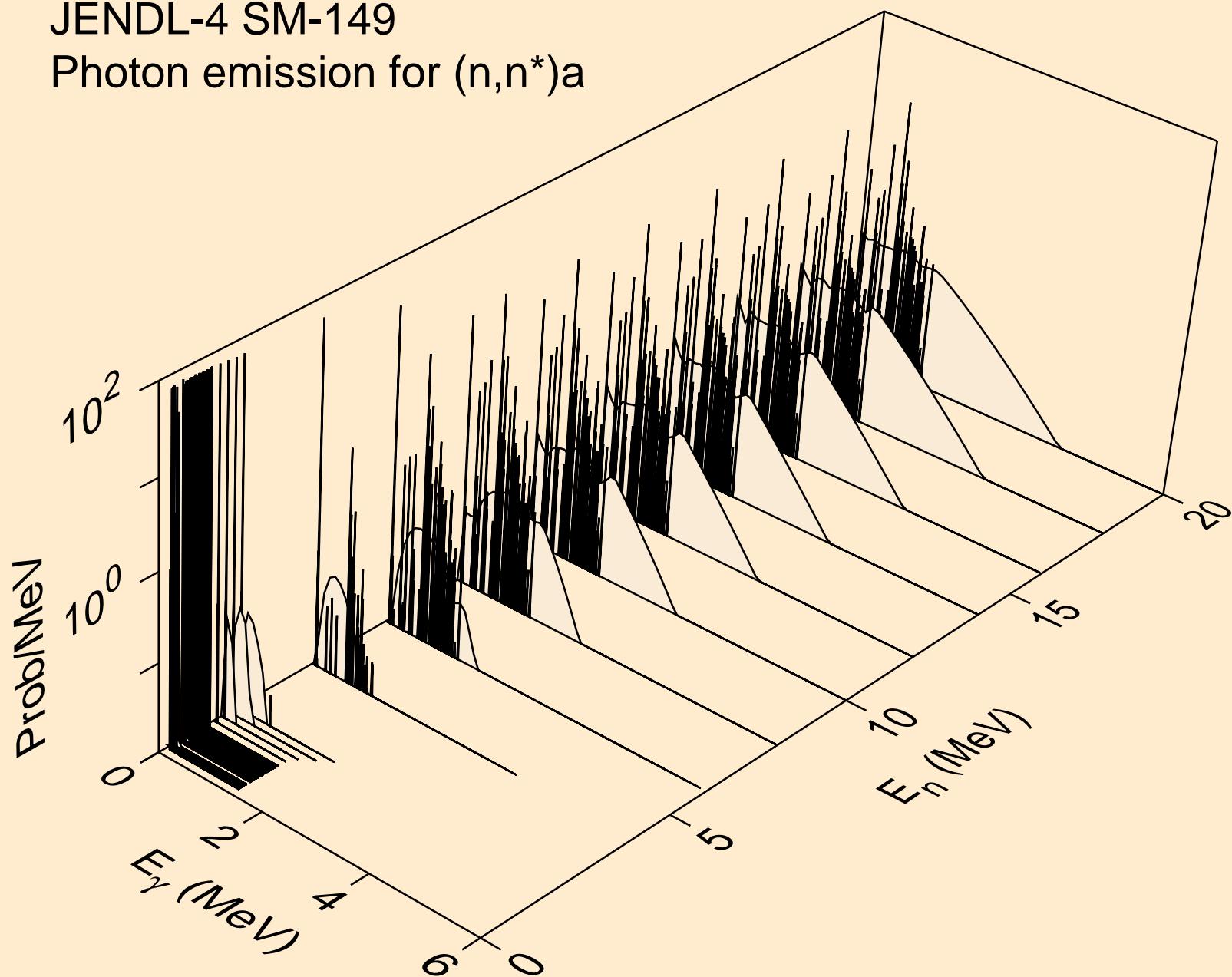
JENDL-4 SM-149  
Photon emission for (n,2n)



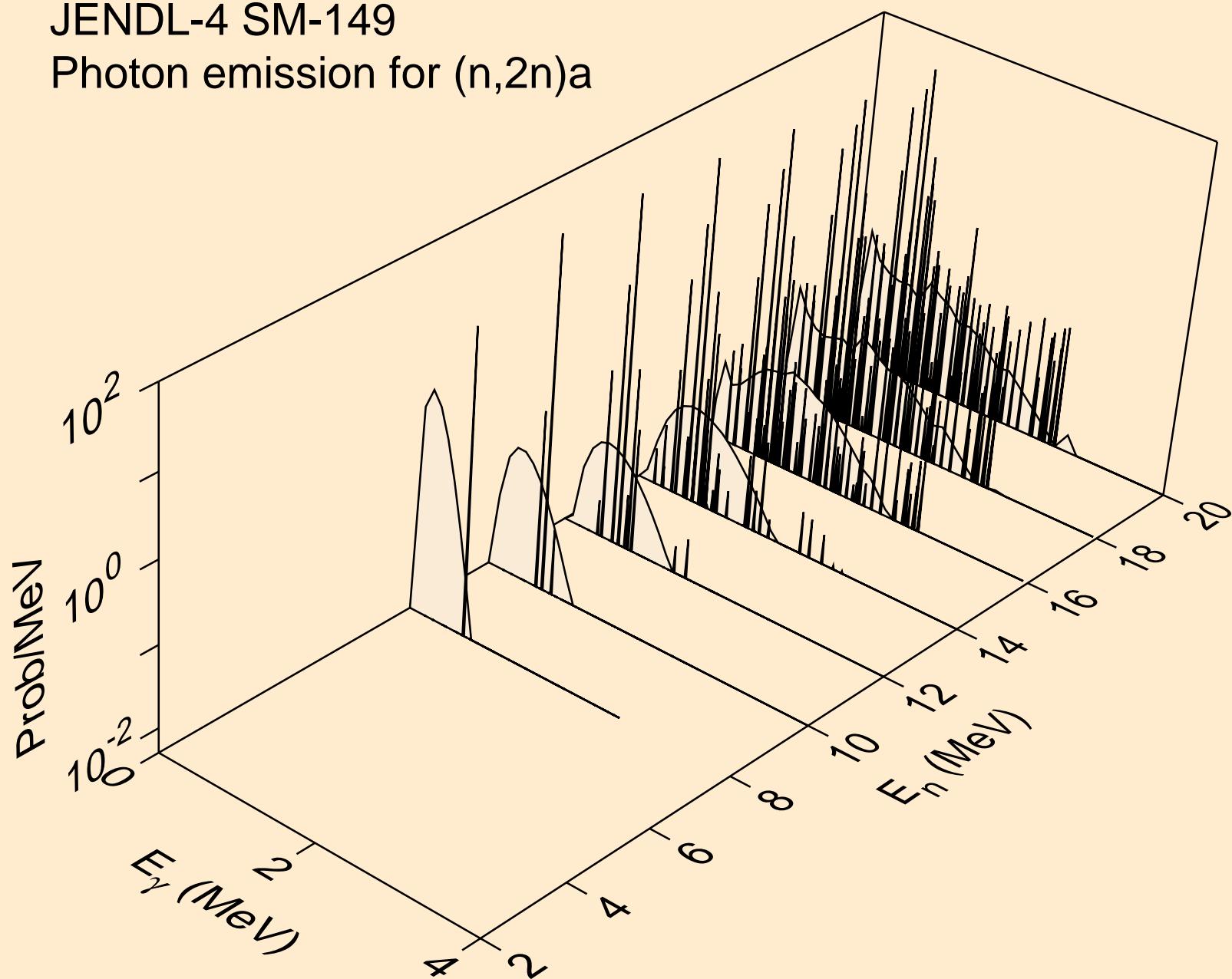
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Photon emission for (n,3n)



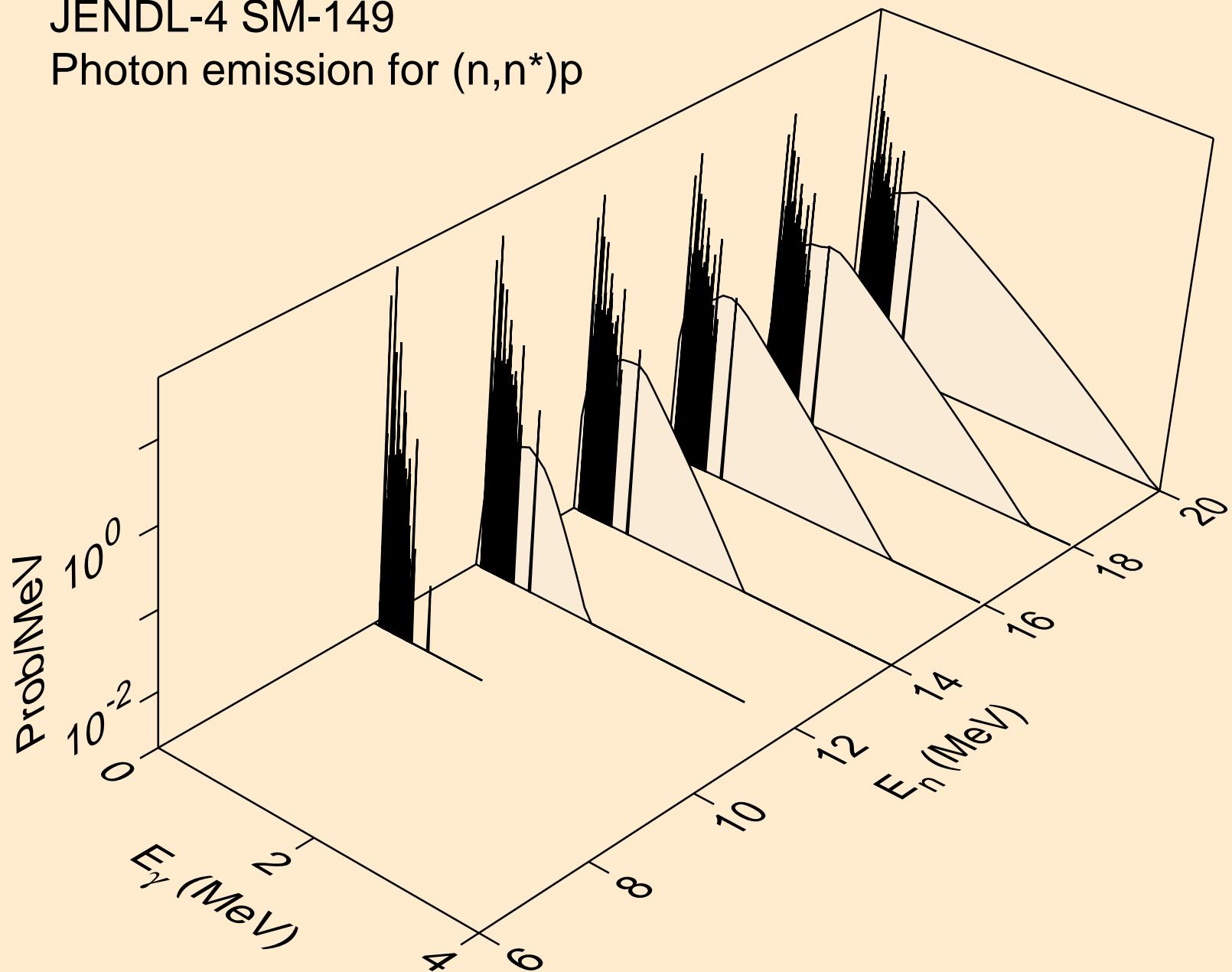
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Photon emission for  $(n,n^*)a$



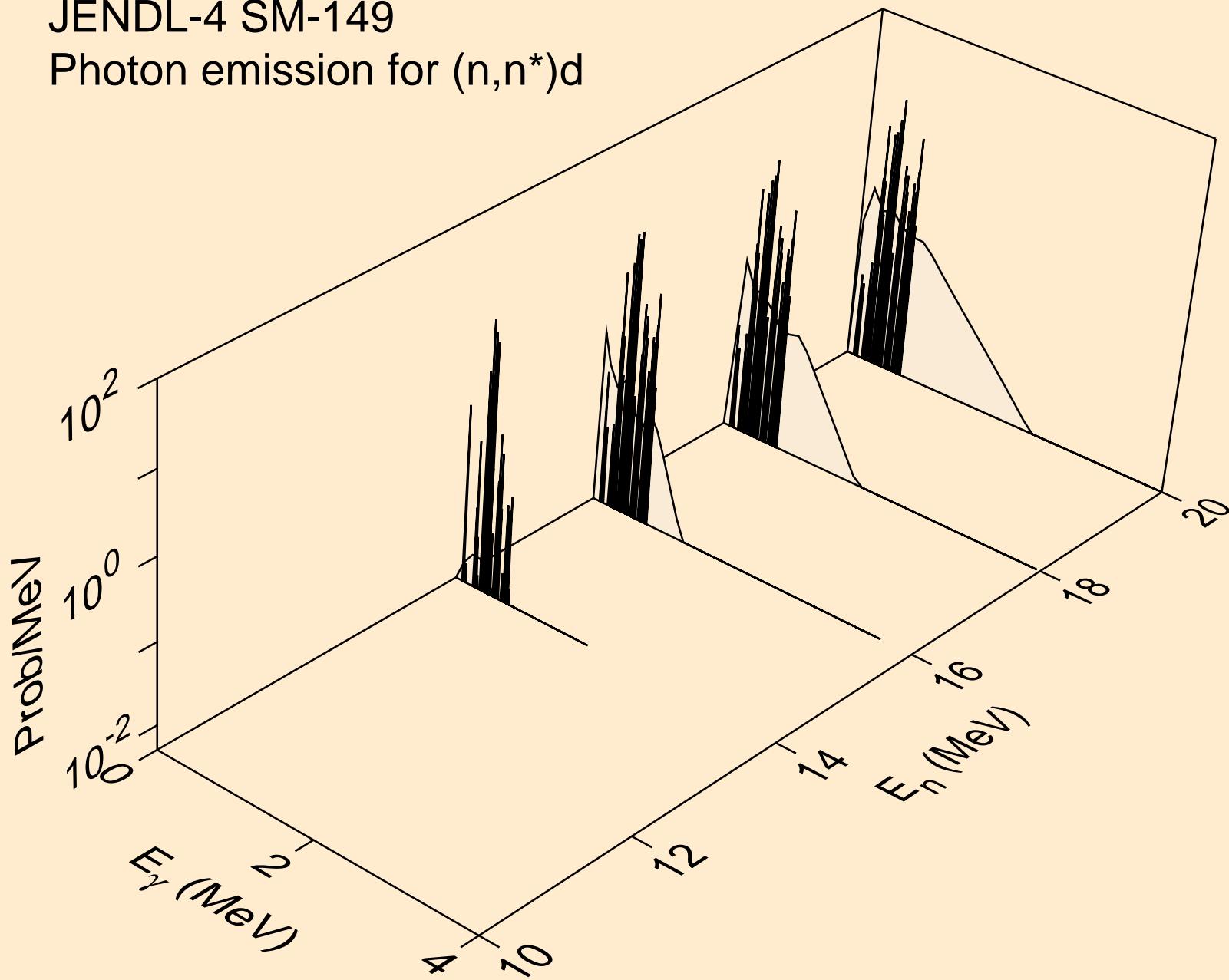
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Photon emission for  $(n,2n)a$



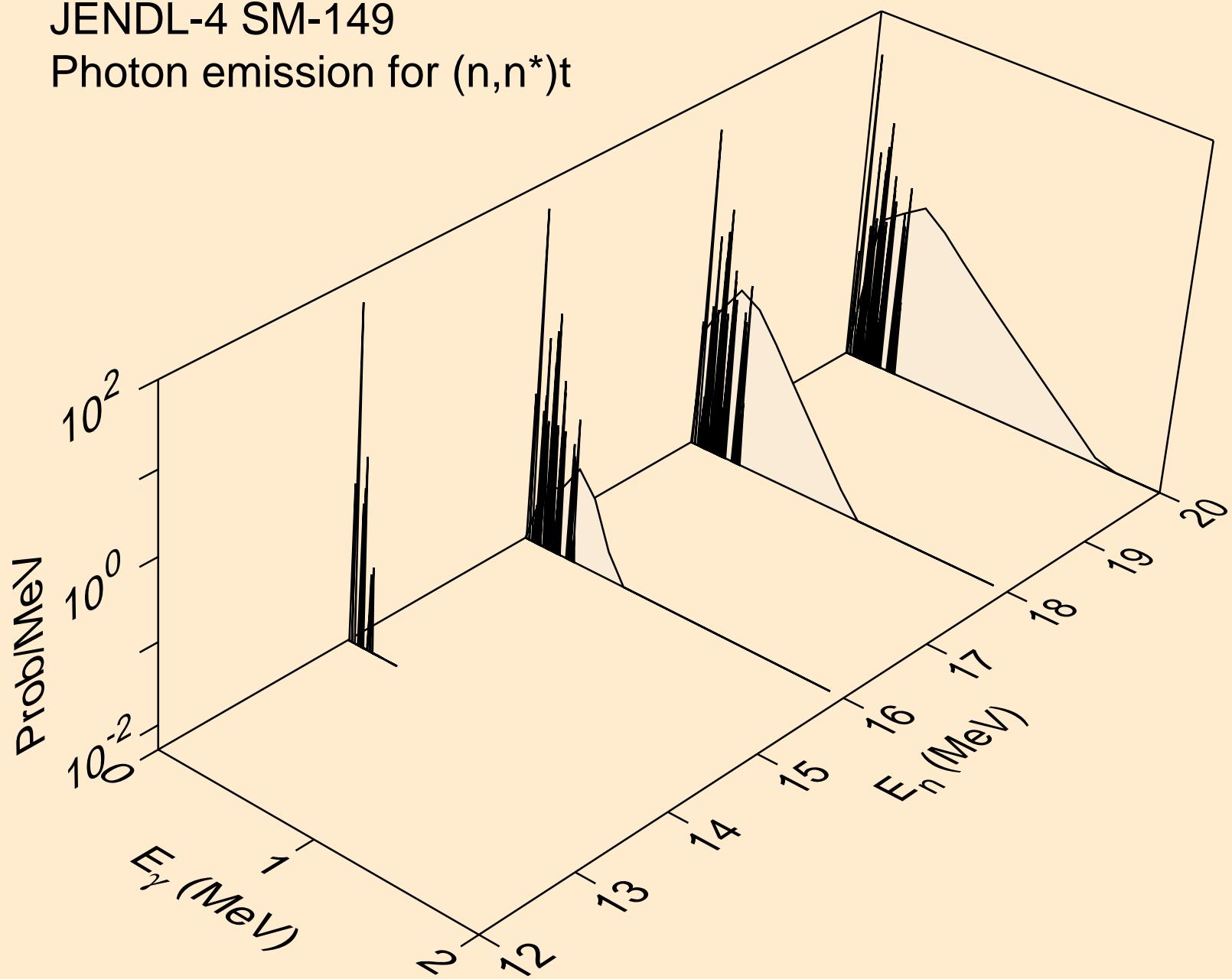
JENDL-4 SM-149  
Photon emission for  $(n,n^*)p$



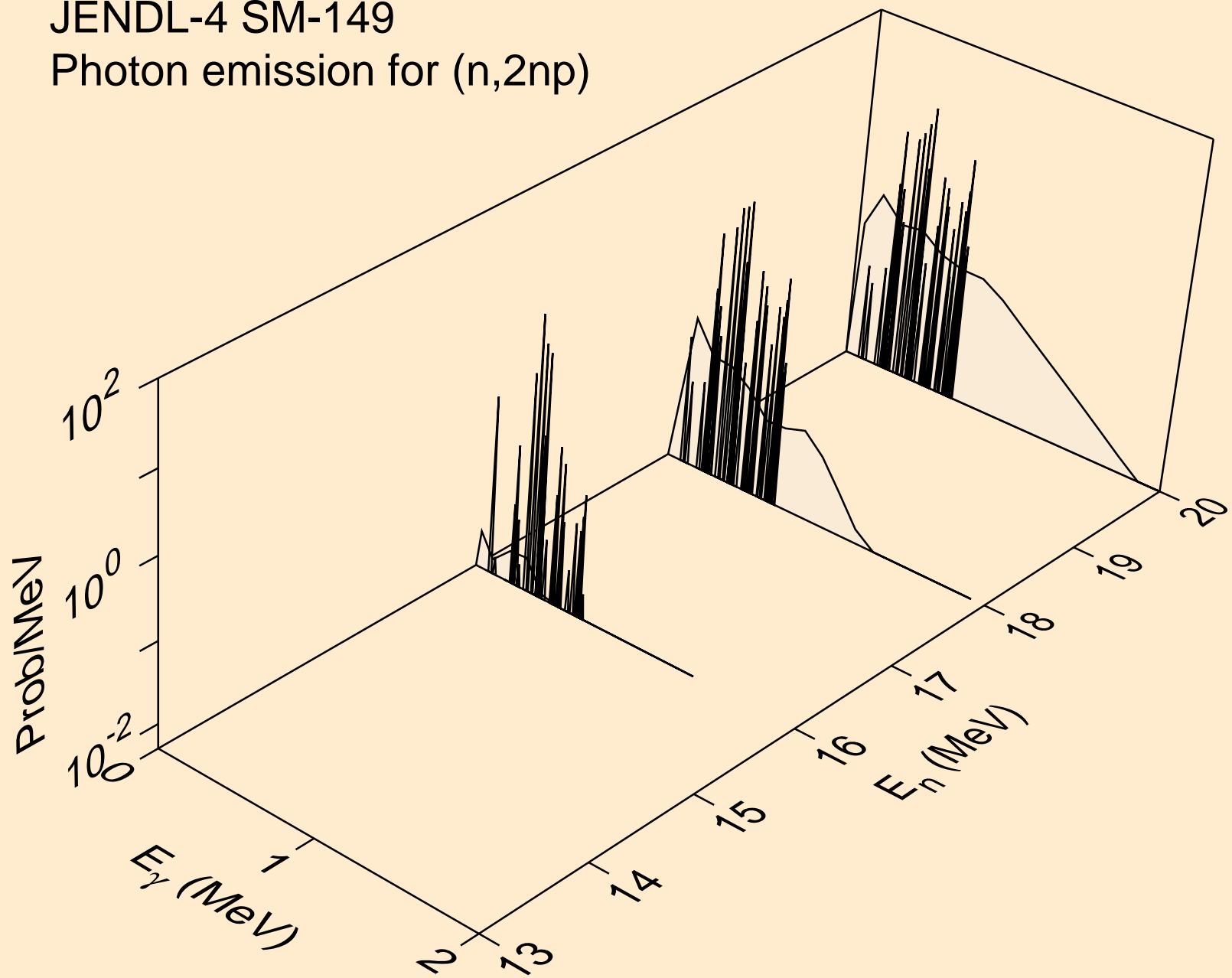
JENDL-4 SM-149  
Photon emission for  $(n,n^*)d$



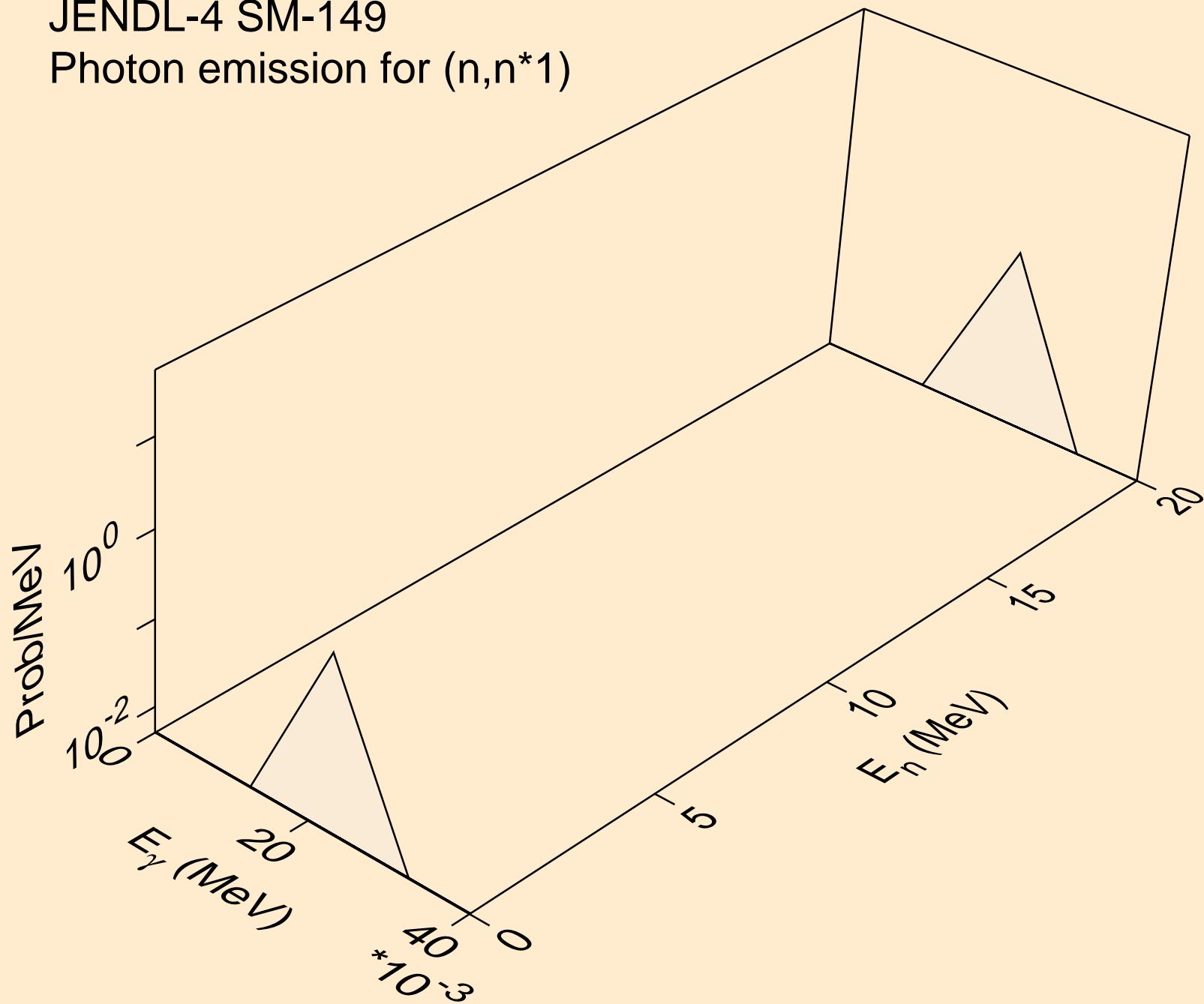
JENDL-4 SM-149  
Photon emission for  $(n,n^*)t$



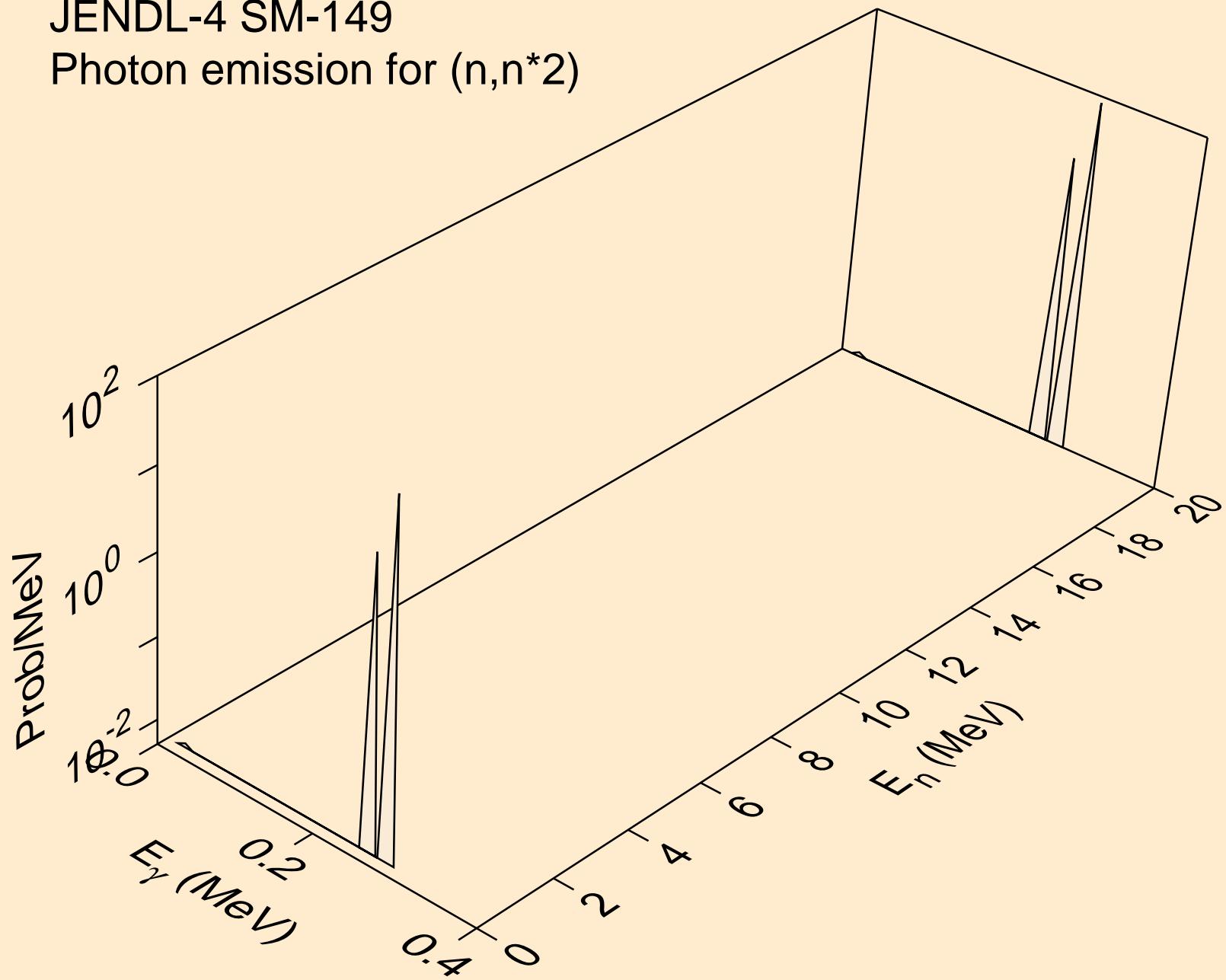
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Photon emission for (n,2np)



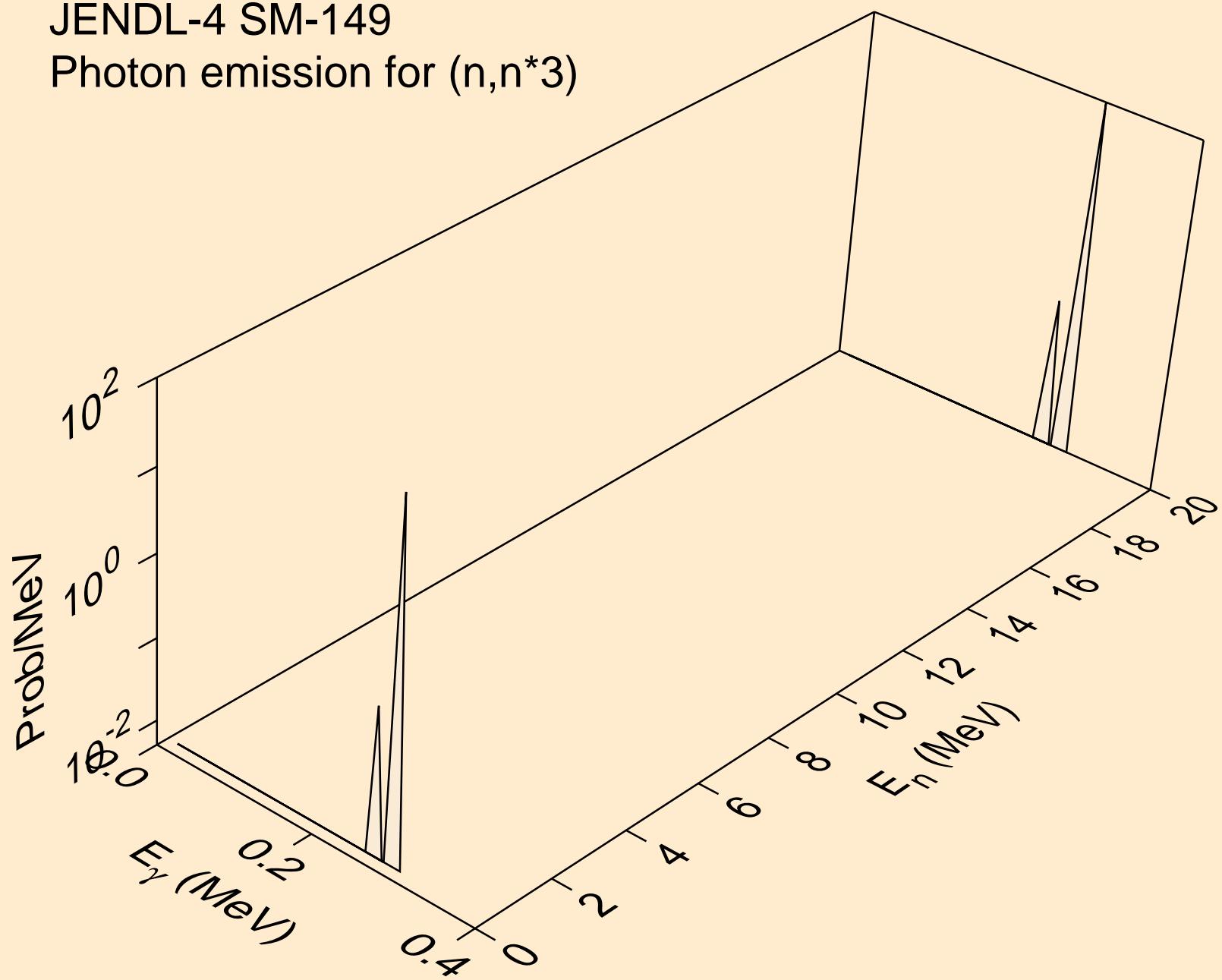
JENDL-4 SM-149  
Photon emission for (n,n\*1)



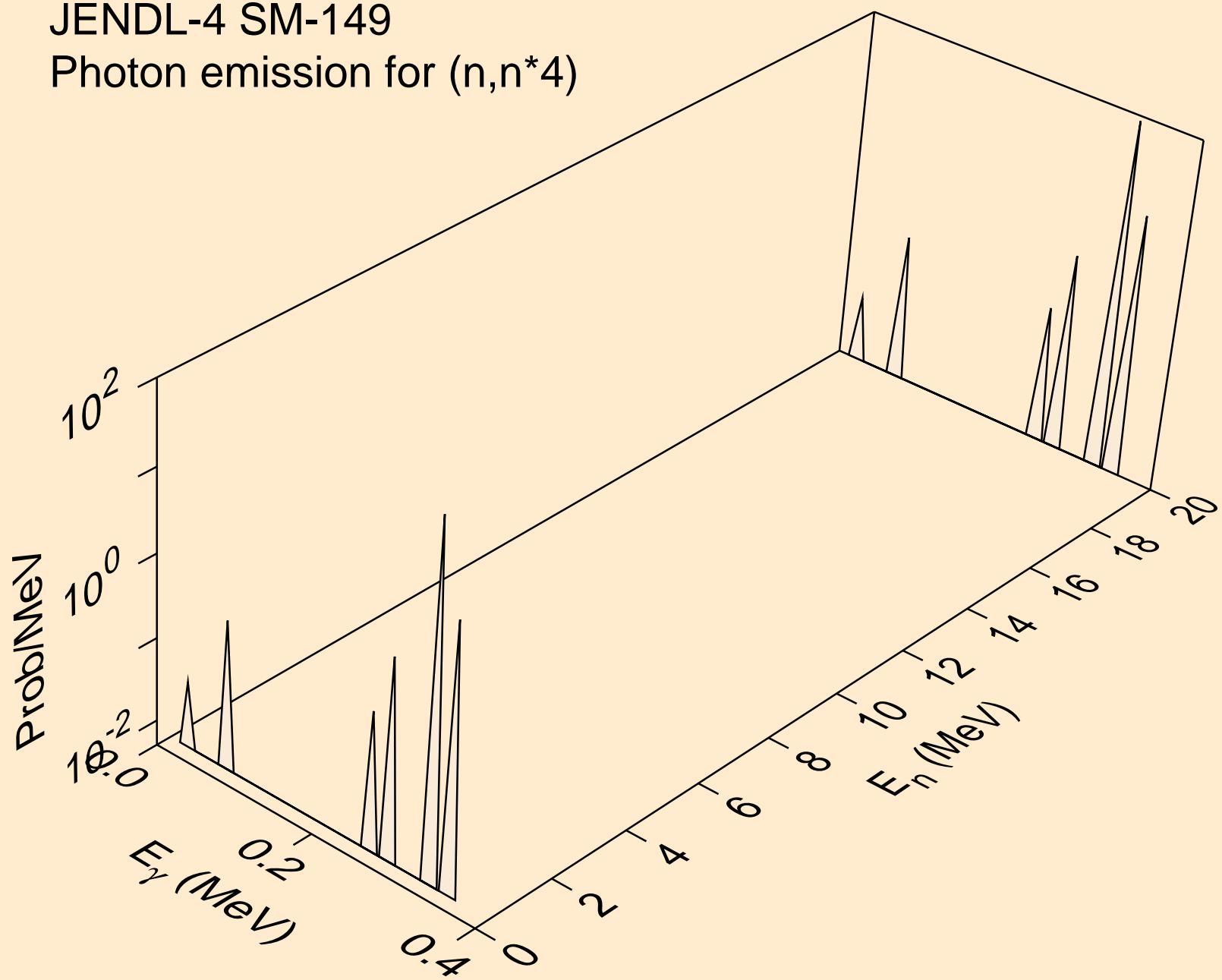
JENDL-4 SM-149  
Photon emission for (n,n\*2)



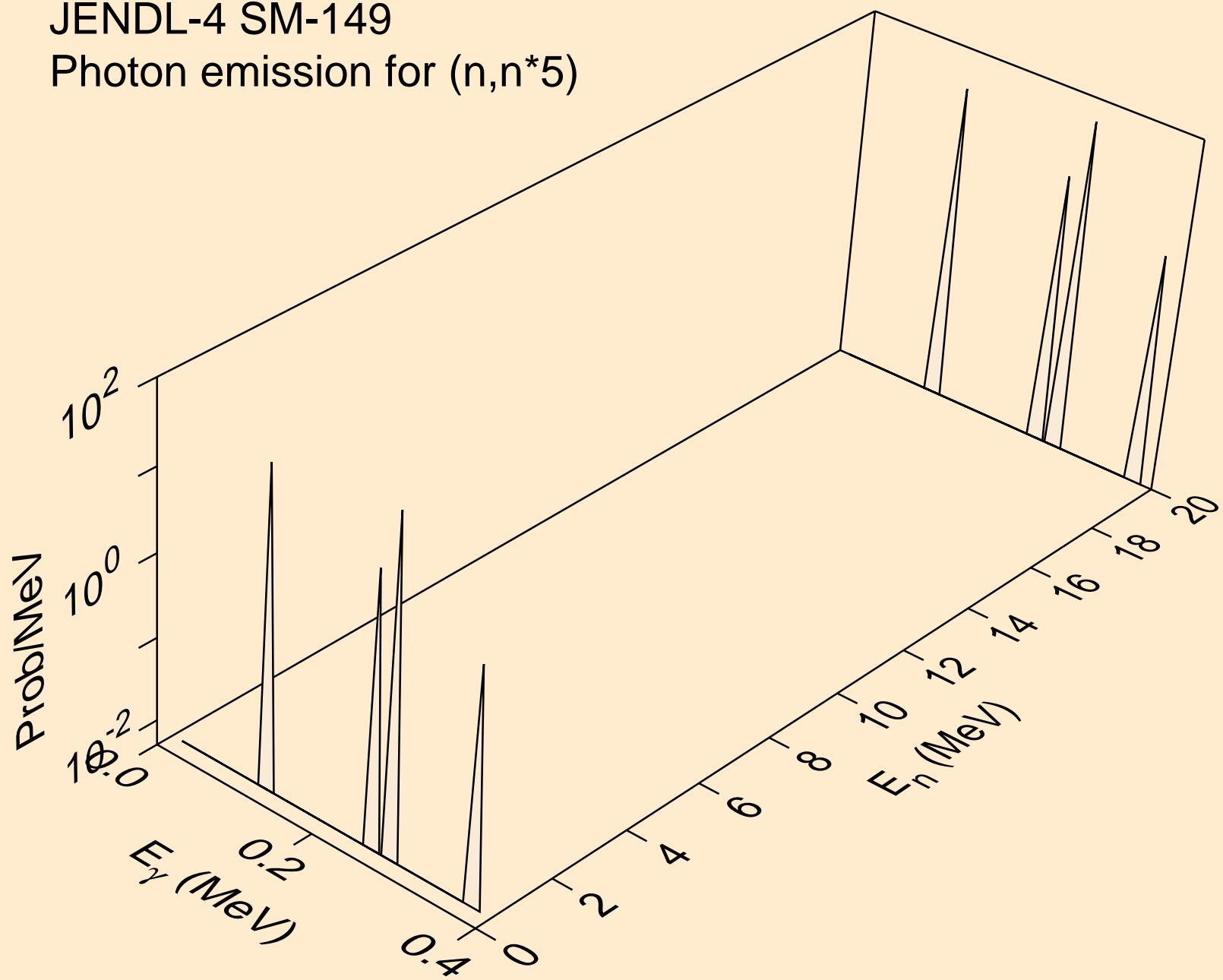
JENDL-4 SM-149  
Photon emission for (n,n\*3)



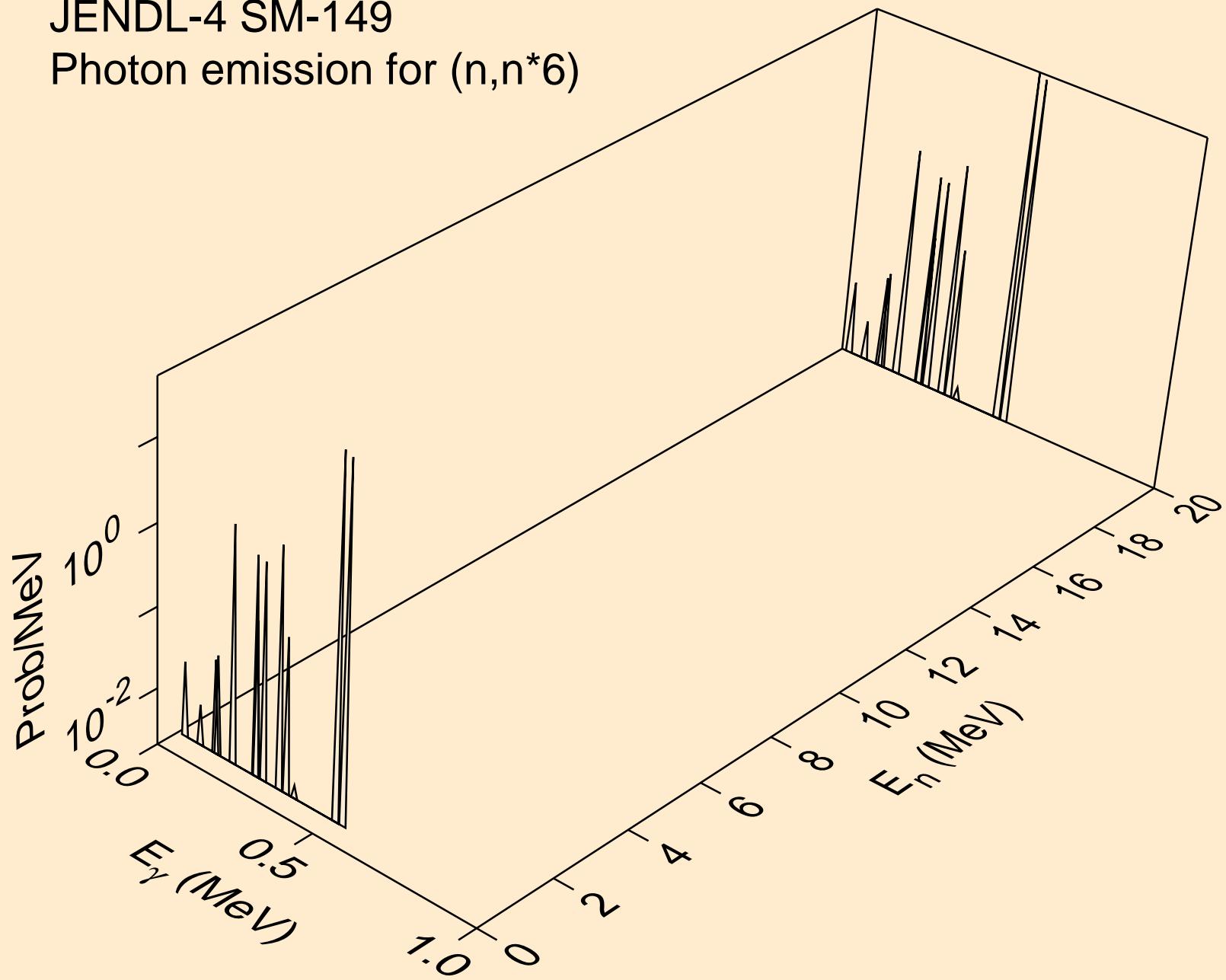
JENDL-4 SM-149  
Photon emission for ( $n, n^*4$ )



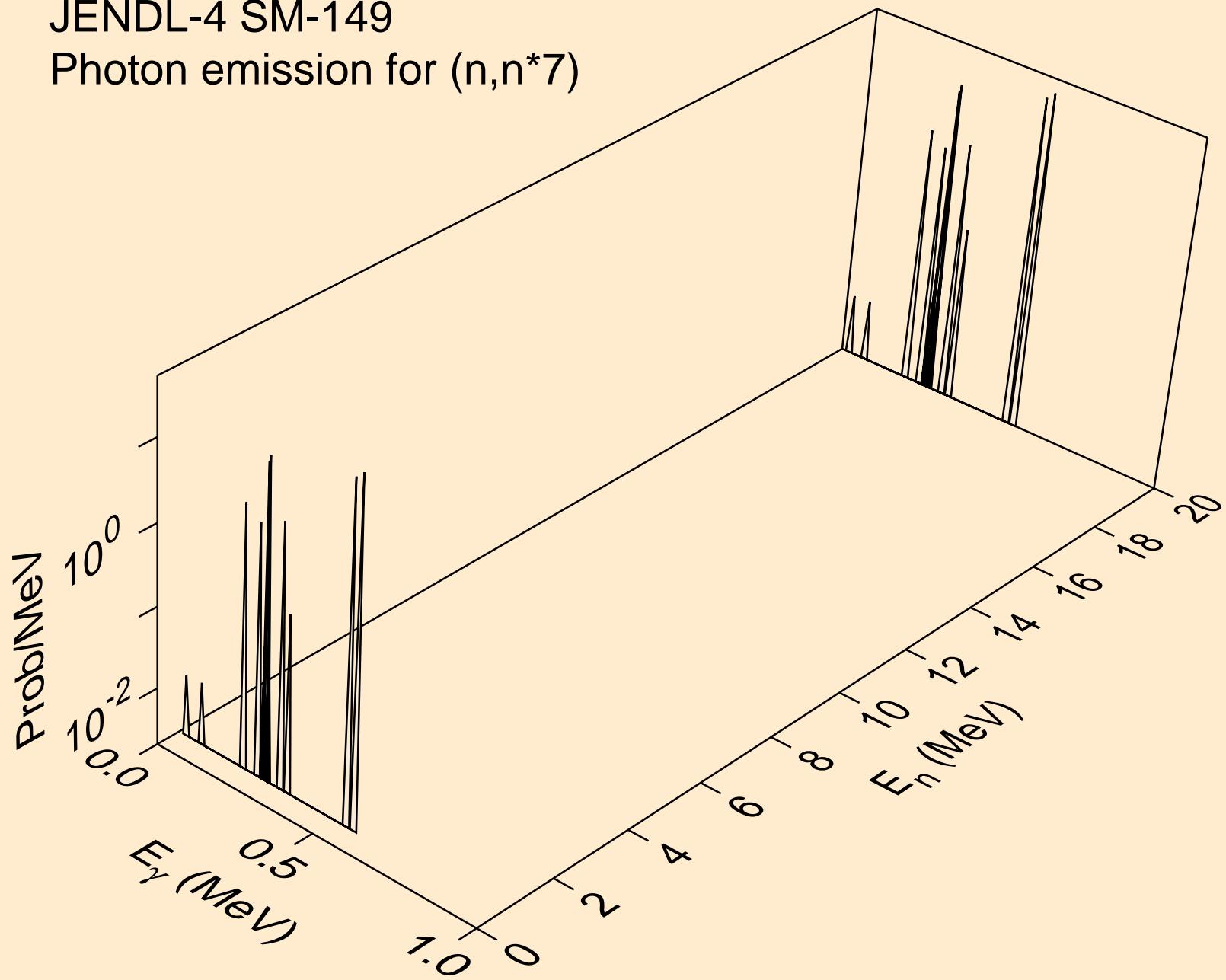
JENDL-4 SM-149  
Photon emission for (n,n\*5)



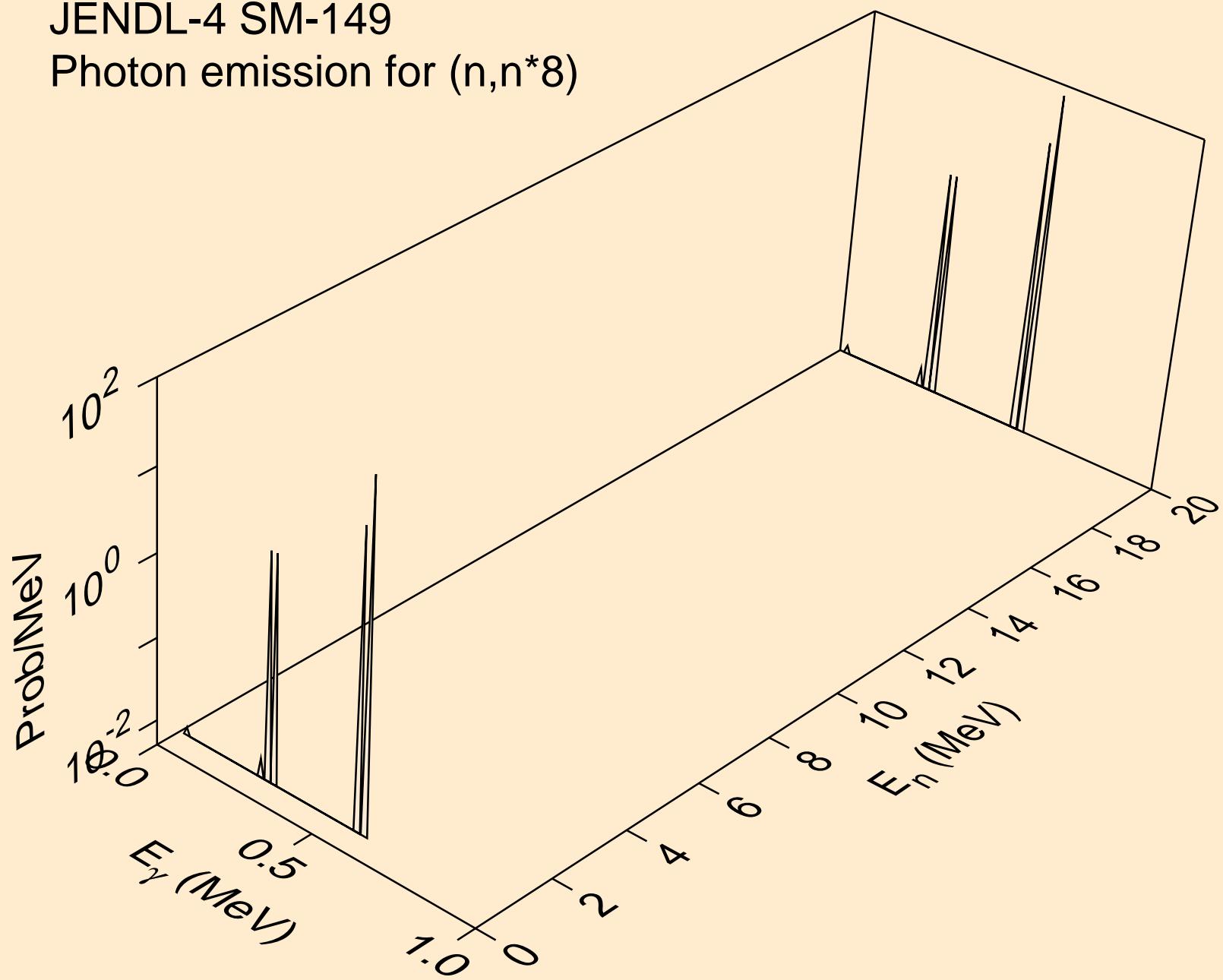
JENDL-4 SM-149  
Photon emission for (n,n\*6)



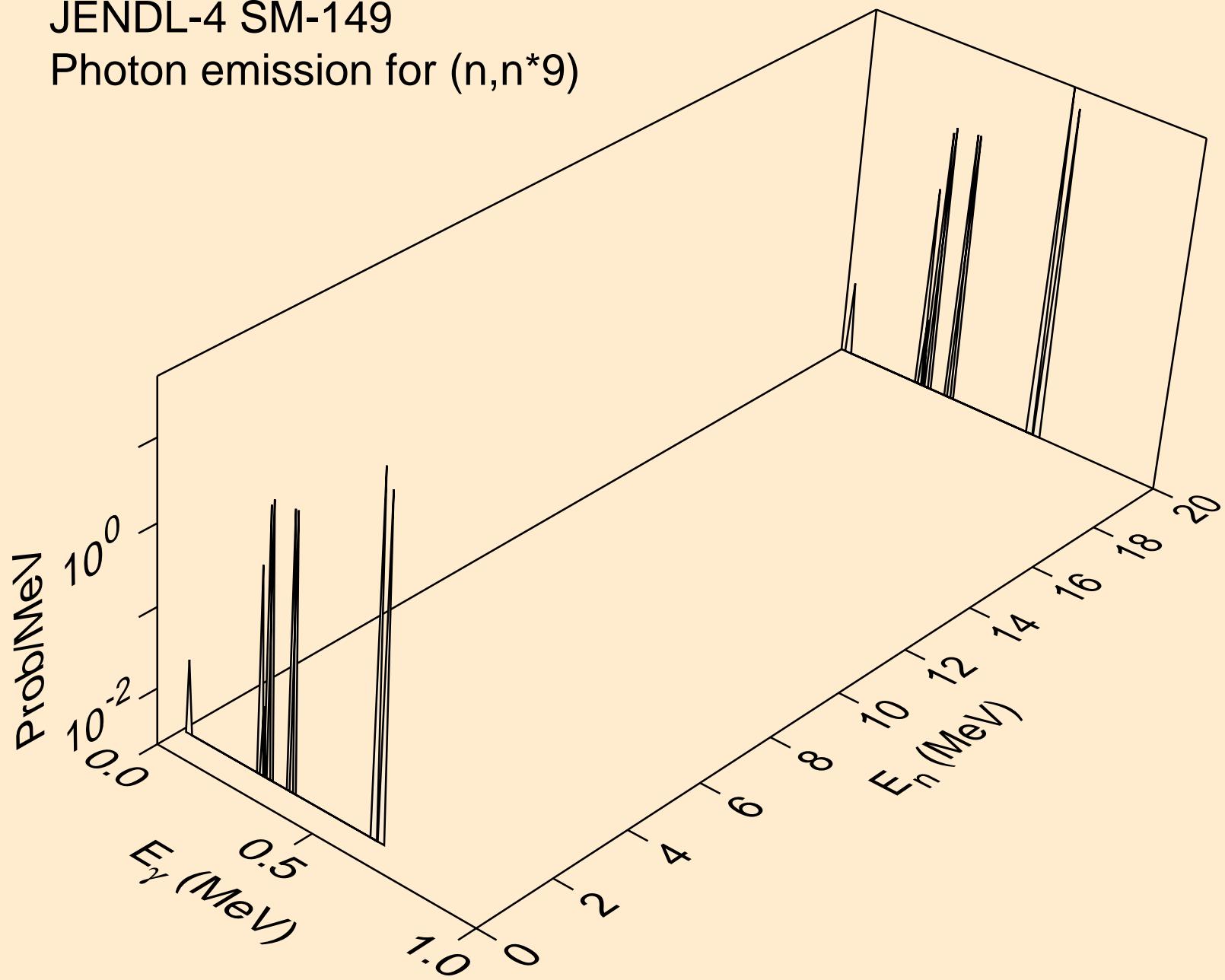
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Photon emission for (n,n\*7)



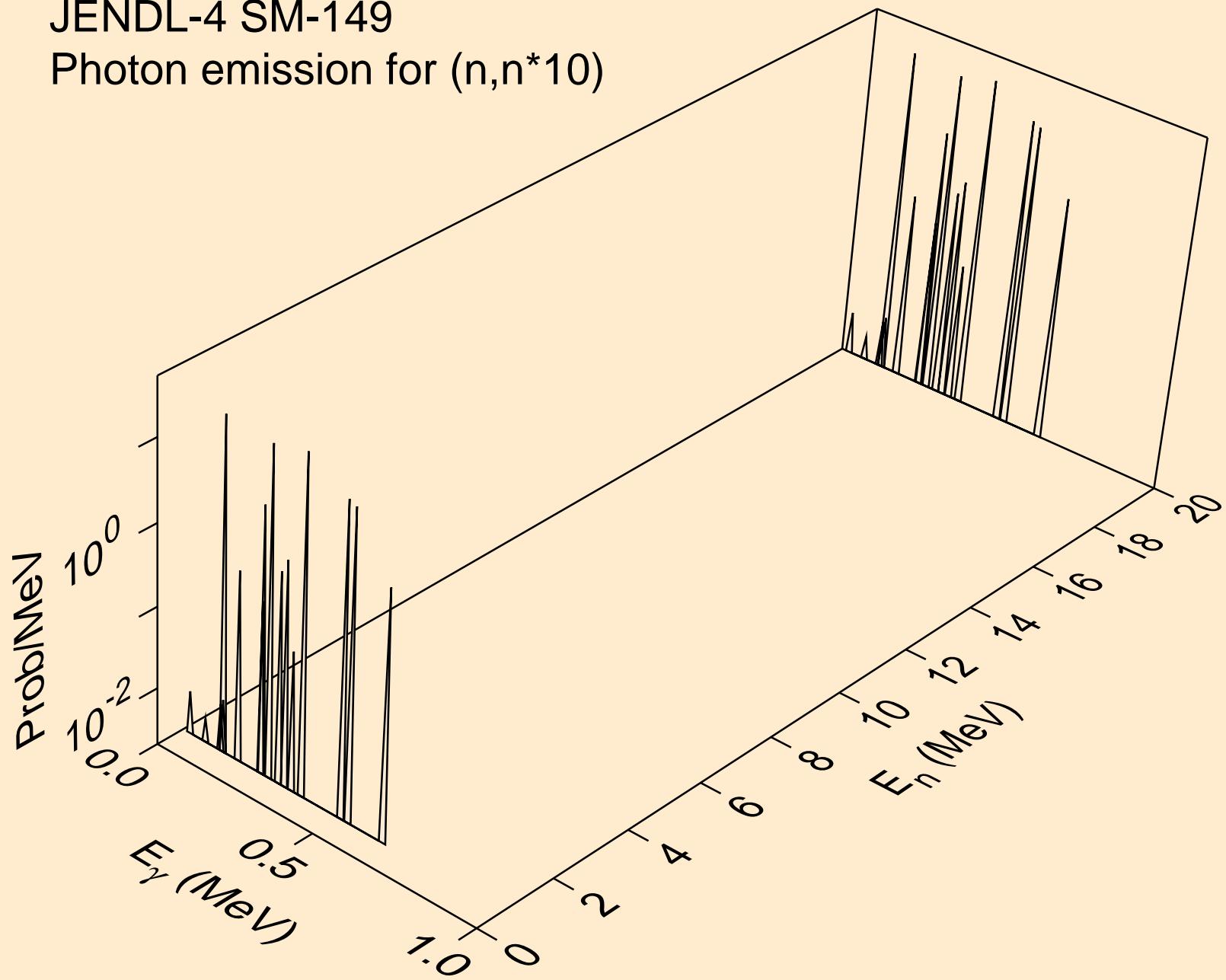
JENDL-4 SM-149  
Photon emission for (n,n\*8)



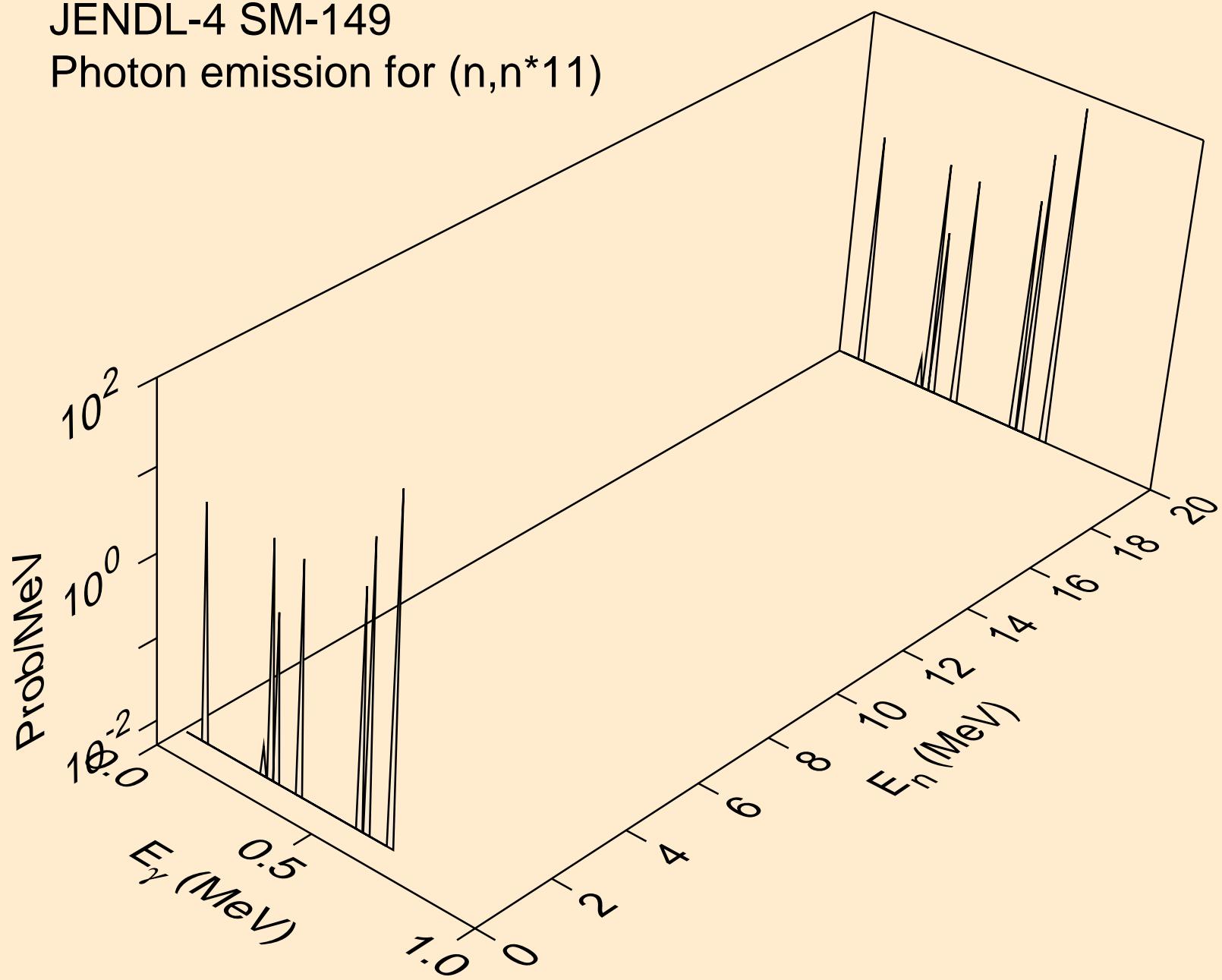
JENDL-4 SM-149  
Photon emission for (n,n\*9)



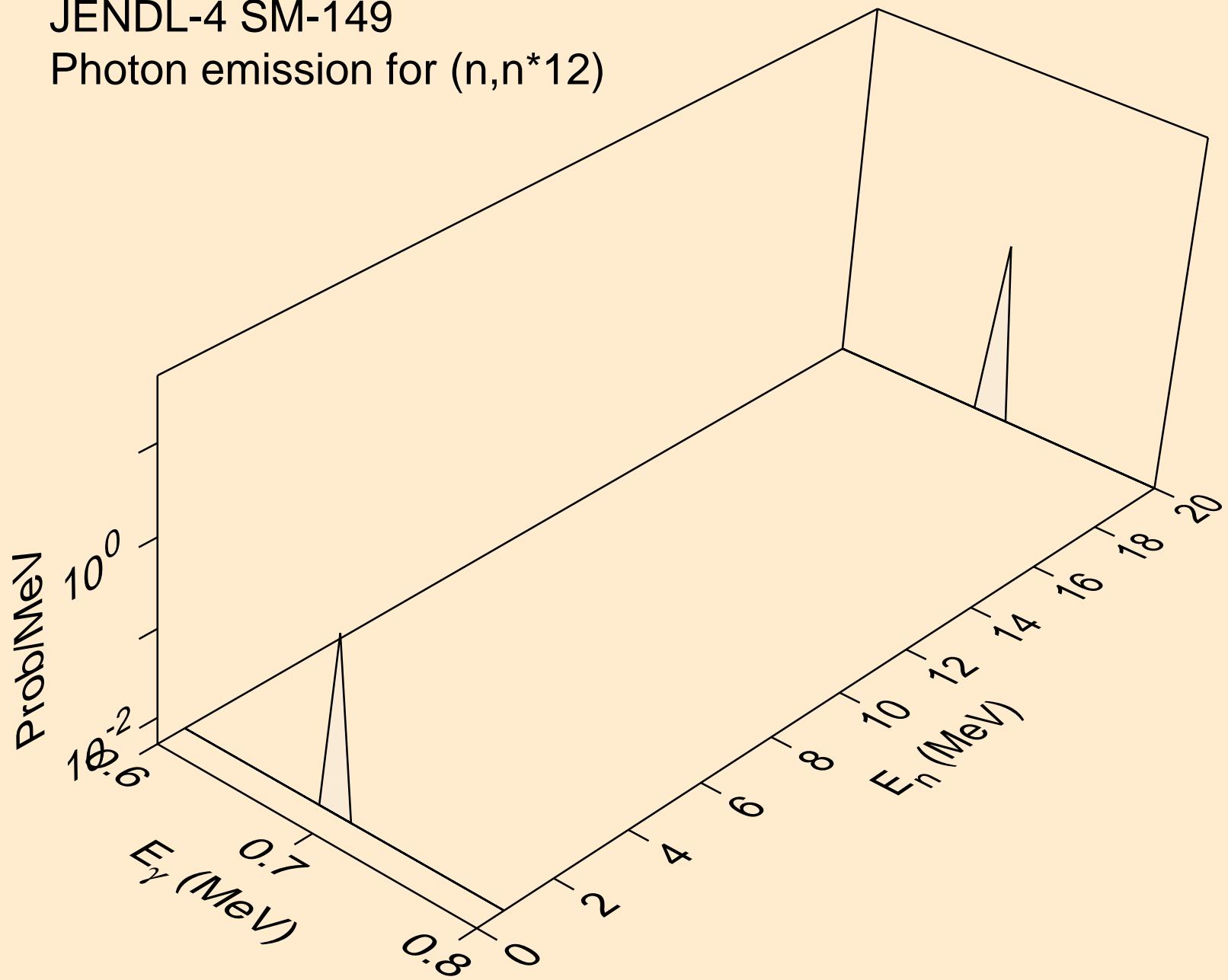
JENDL-4 SM-149  
Photon emission for ( $n,n^*$ ) $\times 10$



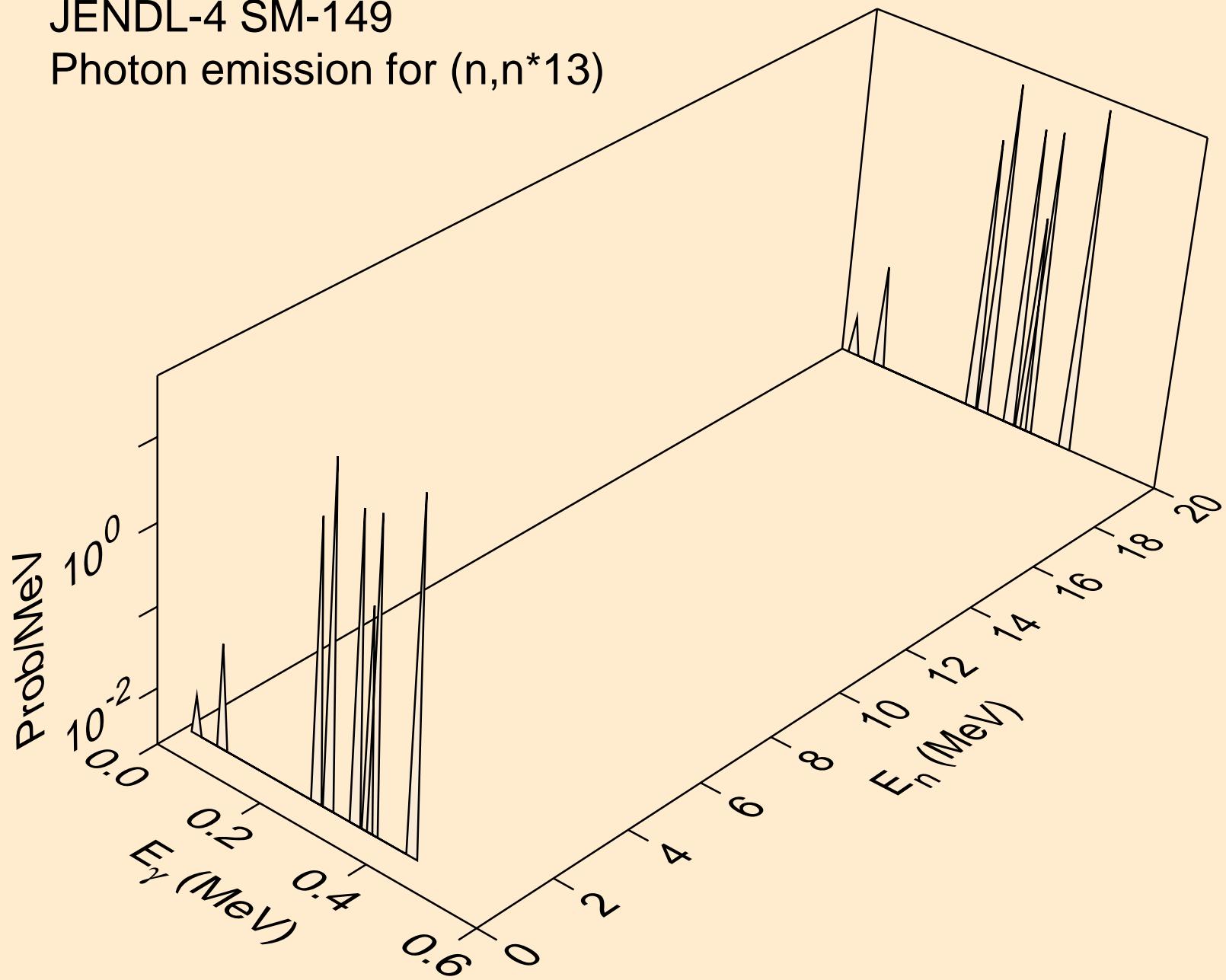
JENDL-4 SM-149  
Photon emission for ( $n, n^* 11$ )



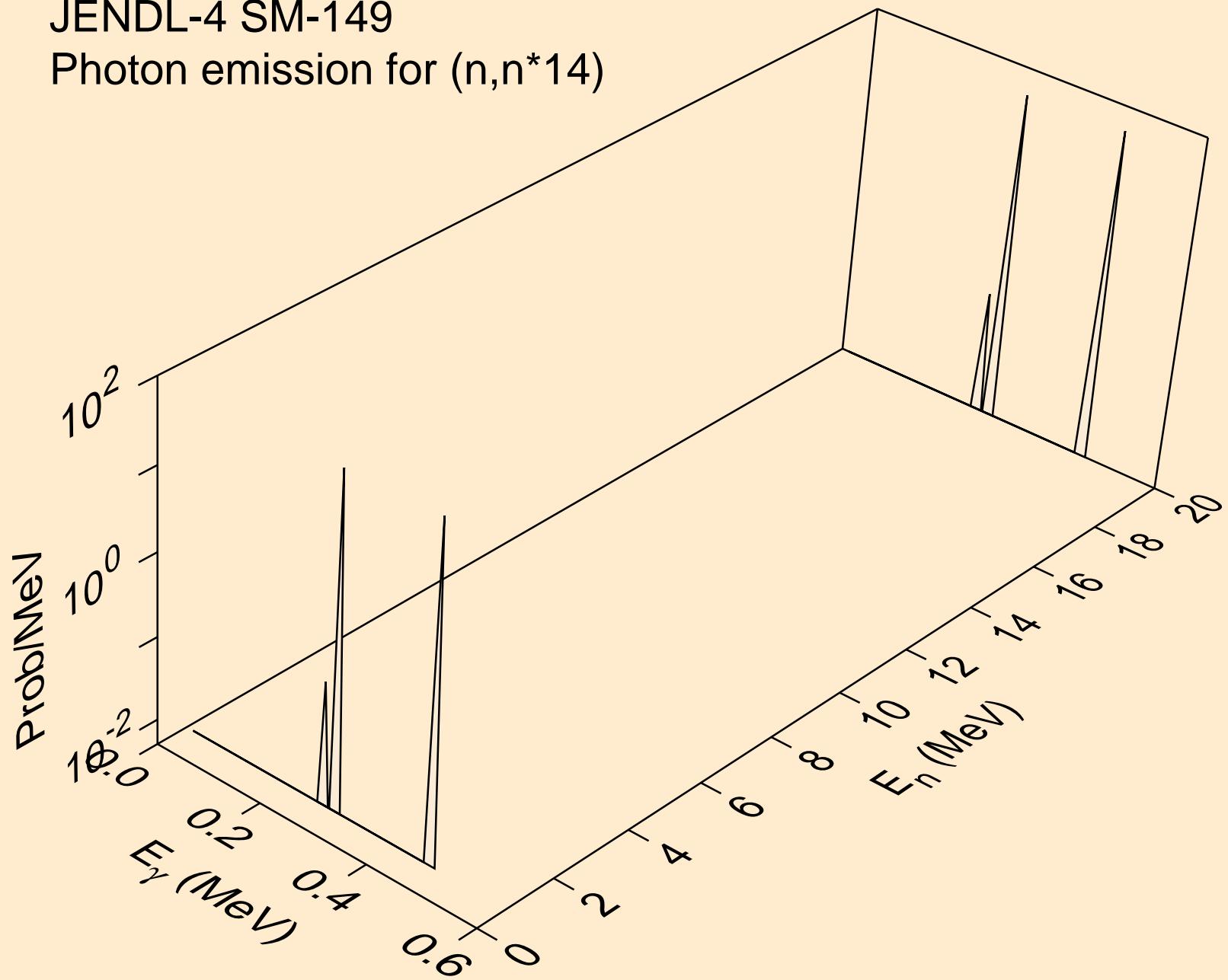
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Photon emission for (n,n\*12)



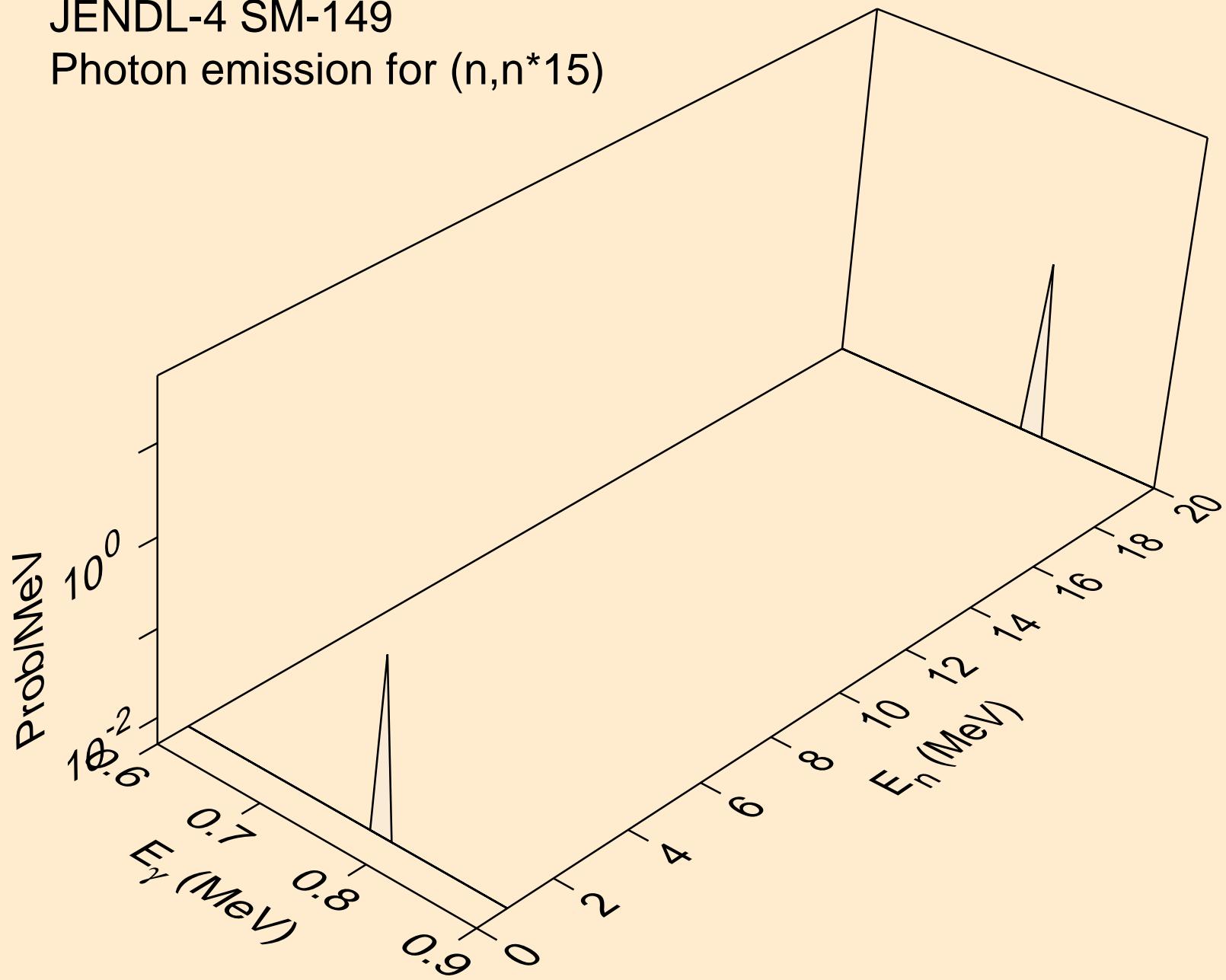
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Photon emission for ( $n, n^* 13$ )



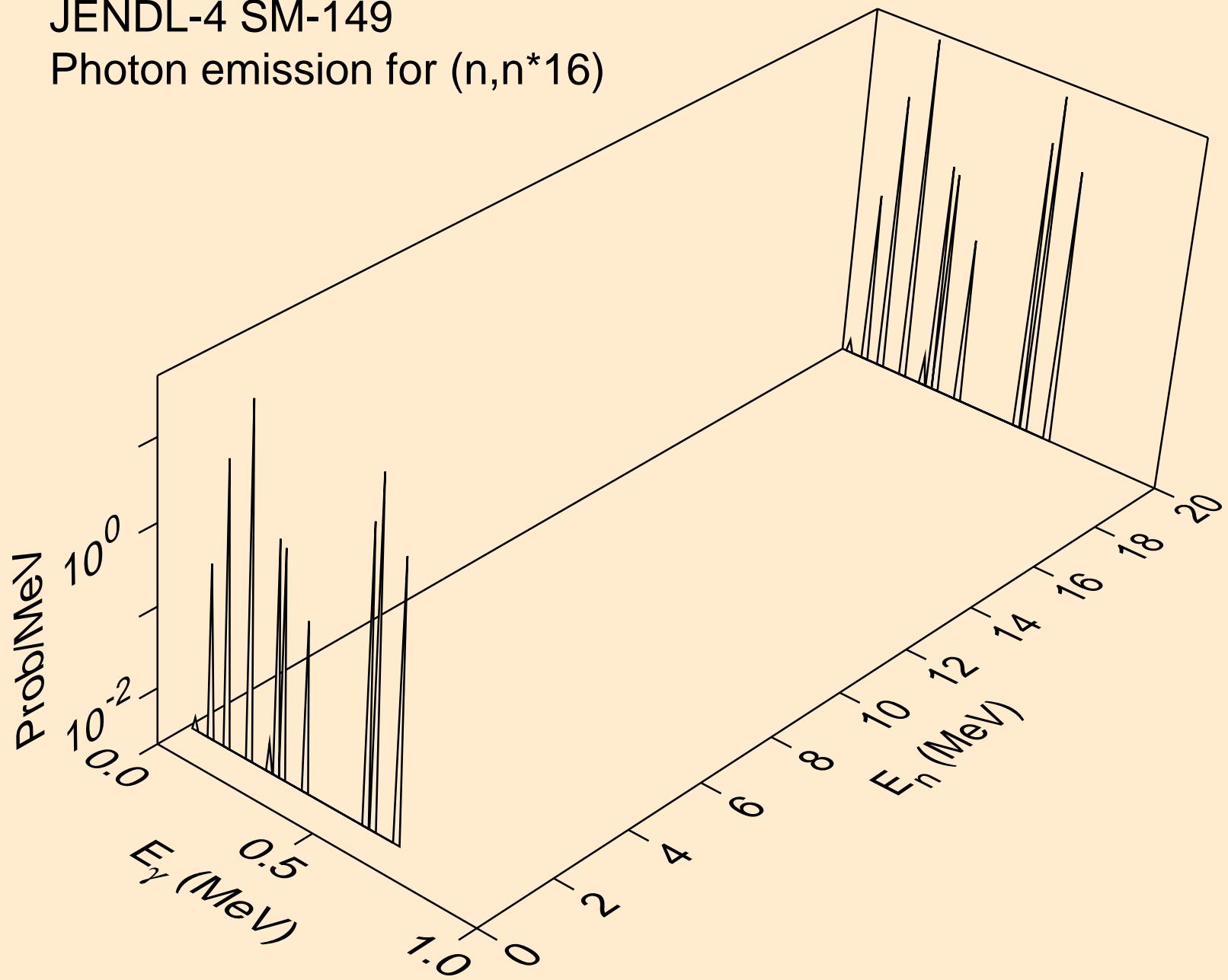
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Photon emission for ( $n, n^* 14$ )



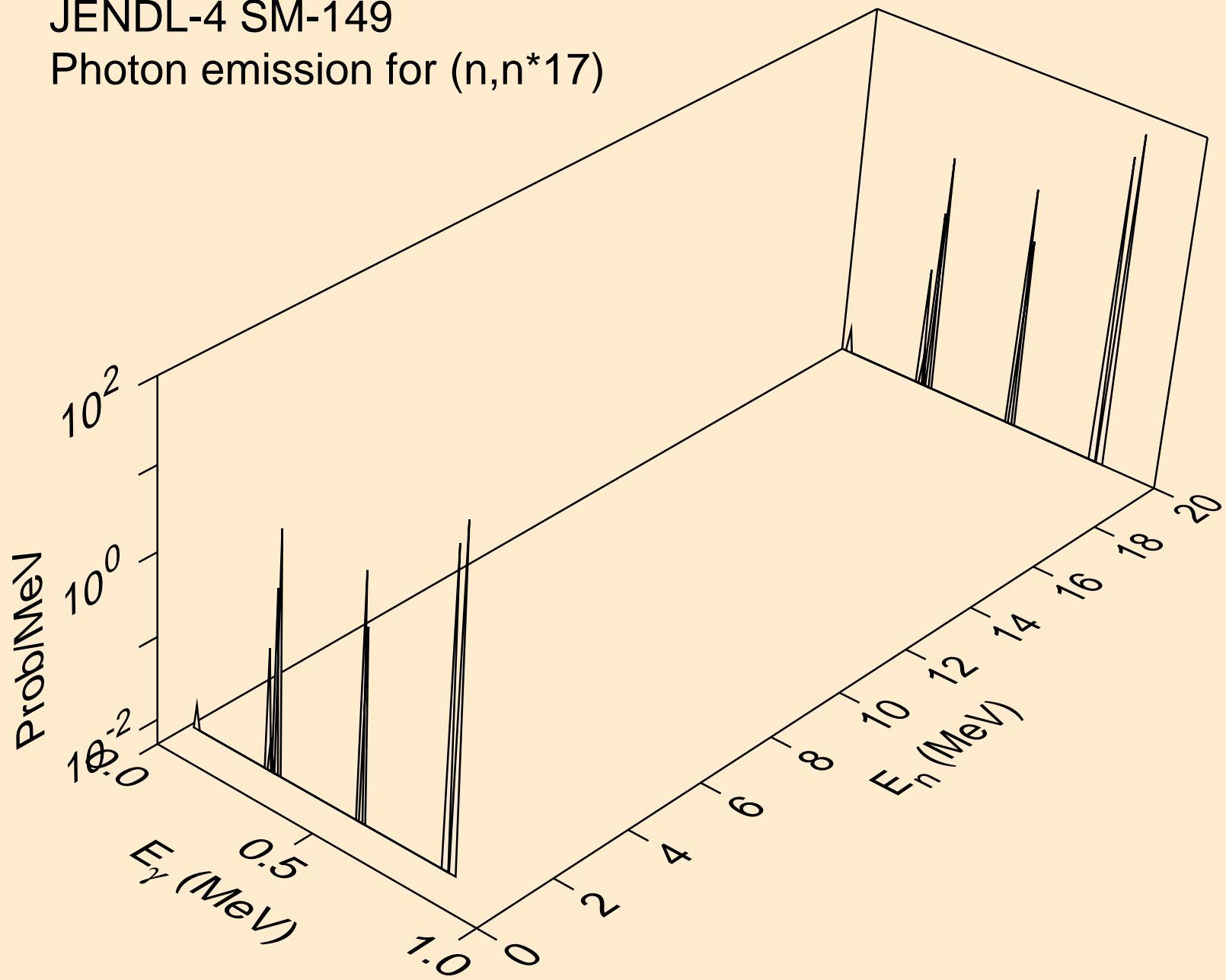
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Photon emission for ( $n, n^* 15$ )



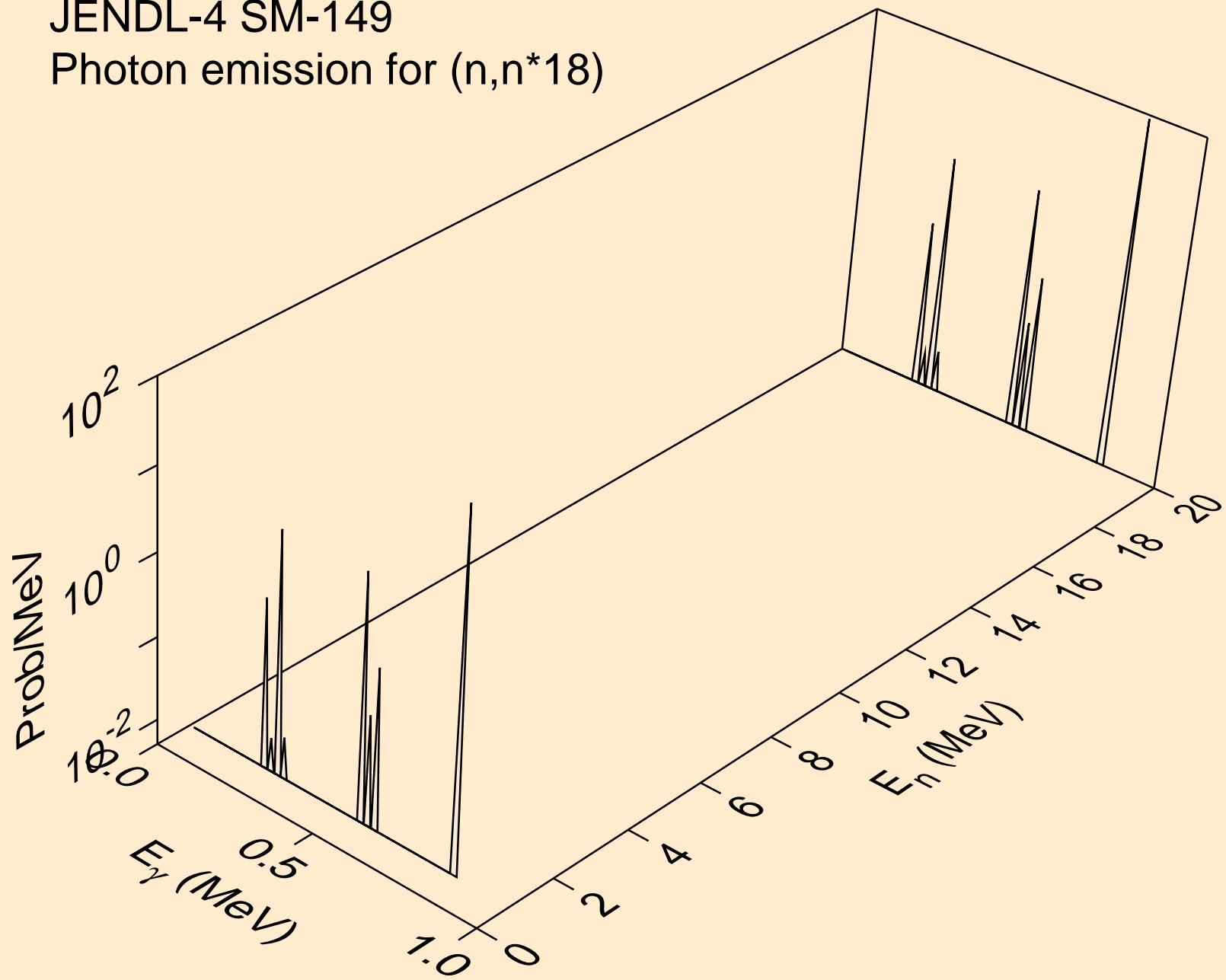
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Photon emission for  $(n,n^*16)$



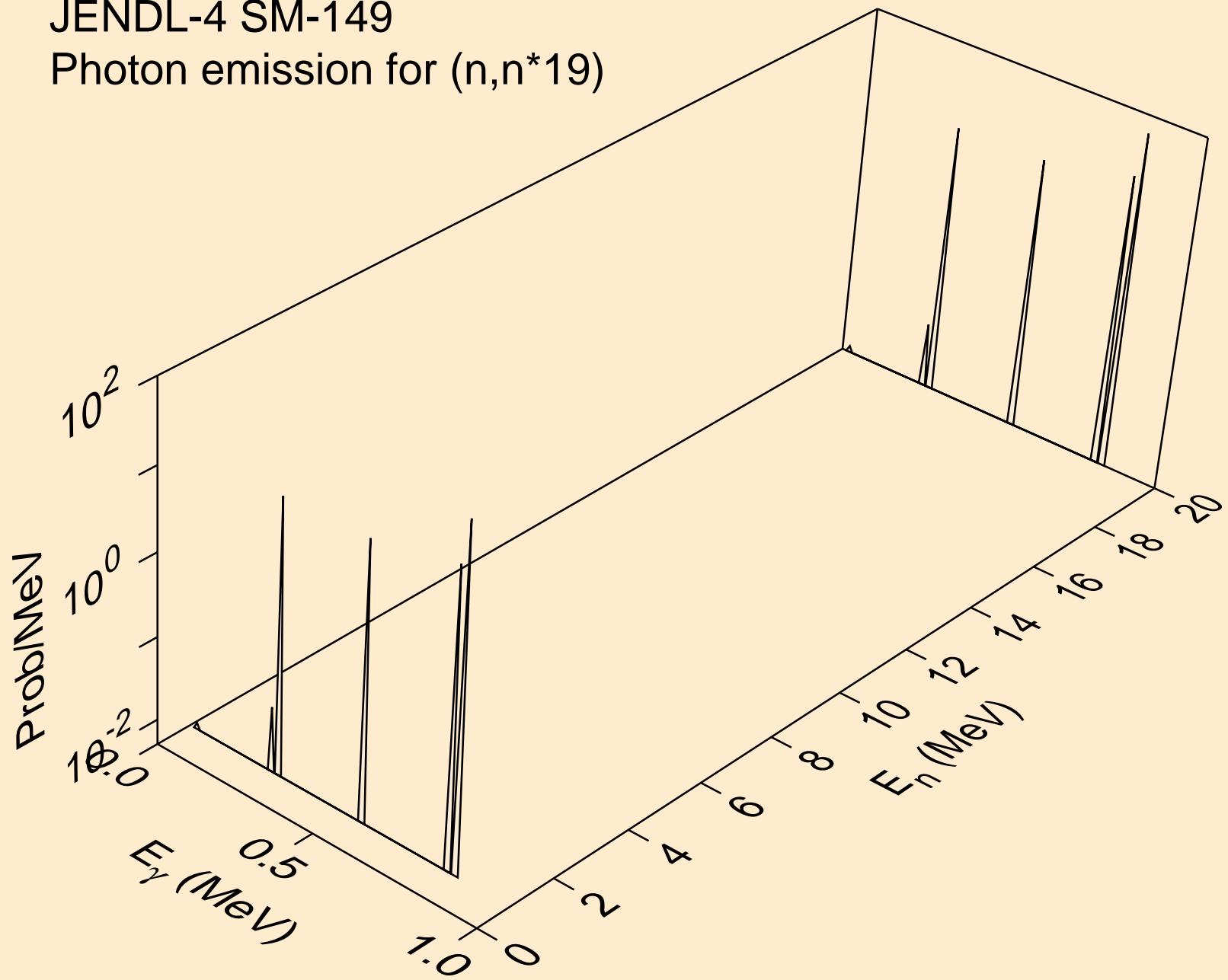
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Photon emission for ( $n, n^* 17$ )



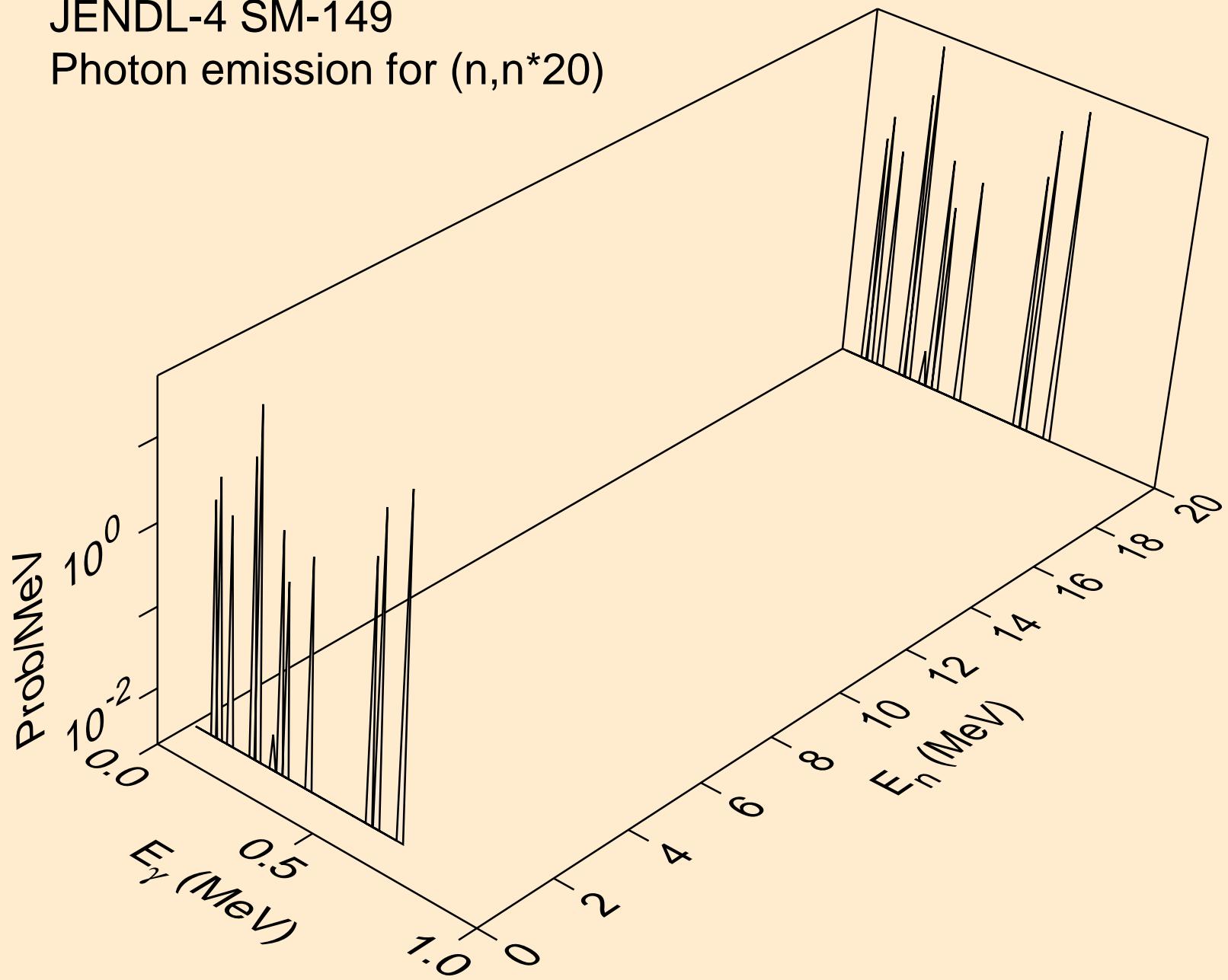
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Photon emission for ( $n, n^* 18$ )



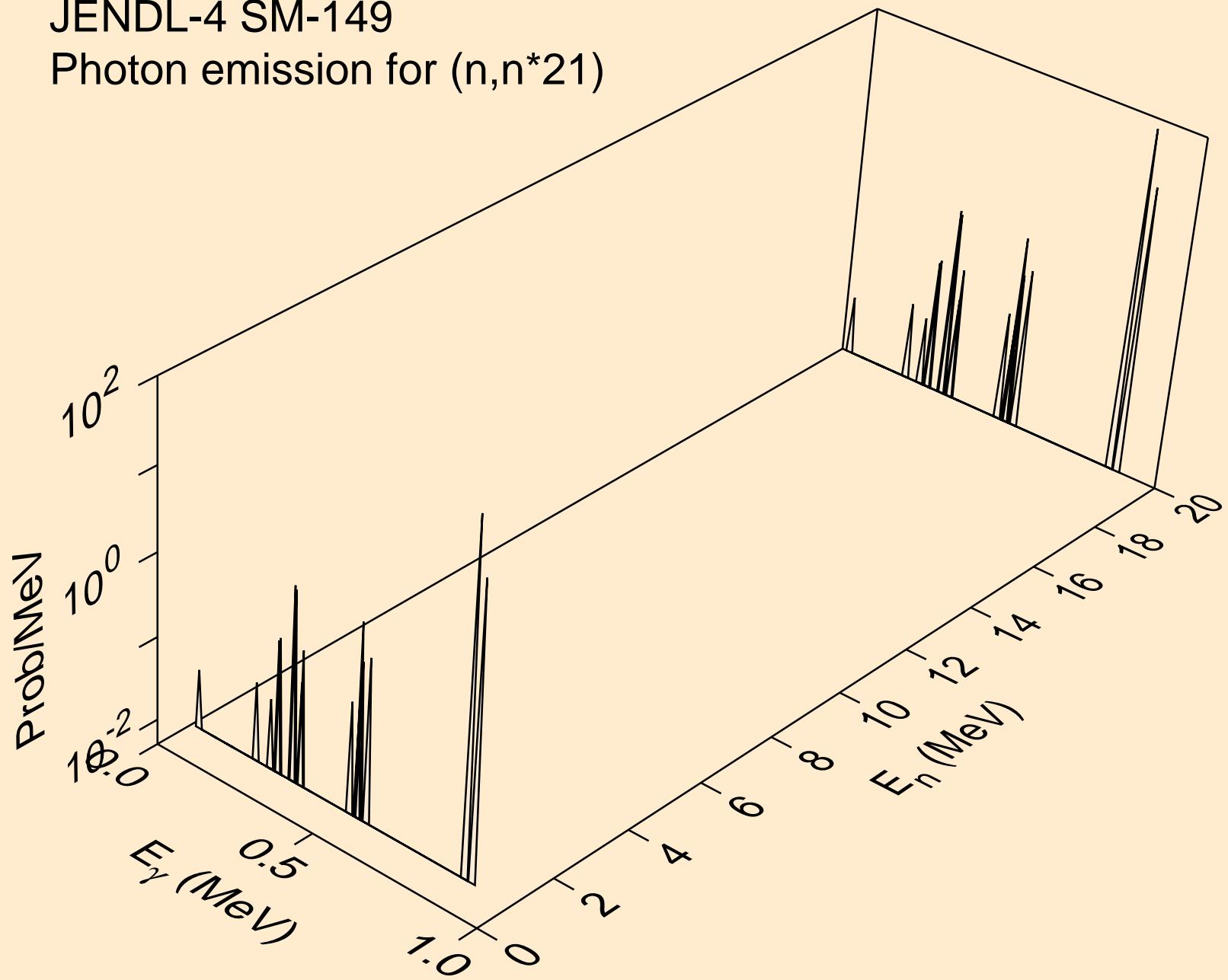
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Photon emission for ( $n, n^* 19$ )



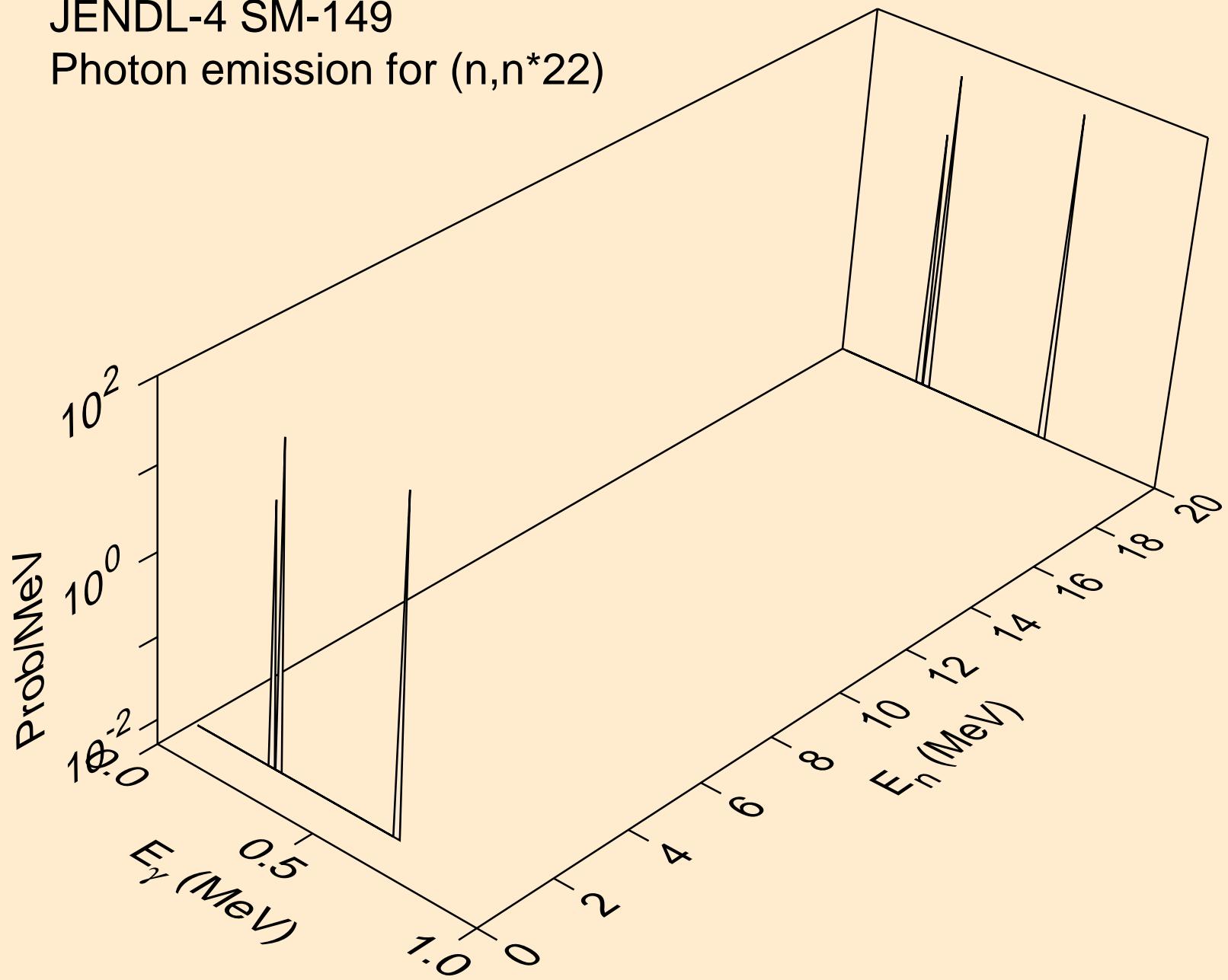
JENDL-4 SM-149  
Photon emission for ( $n, n^* 20$ )



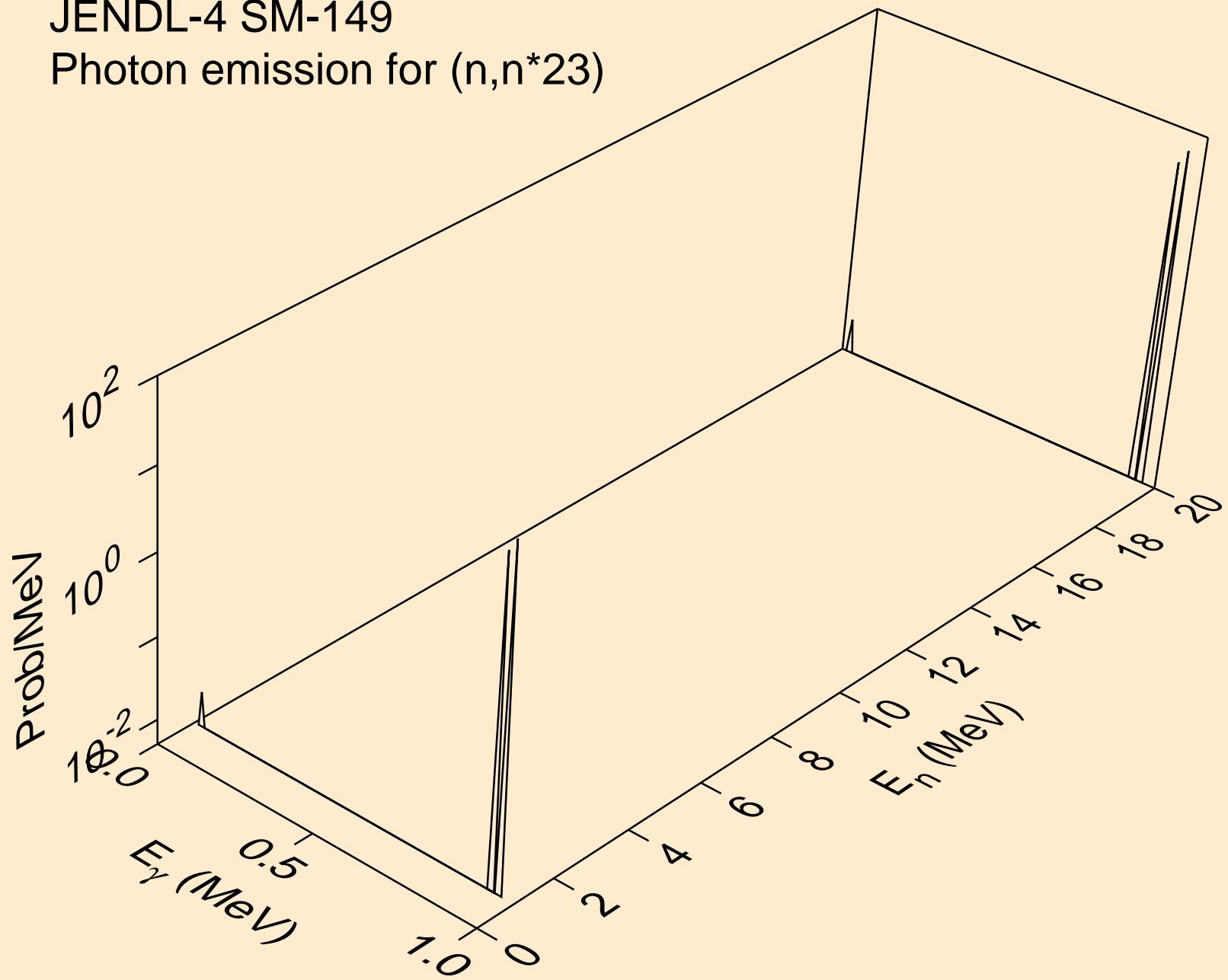
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Photon emission for (n,n\*21)



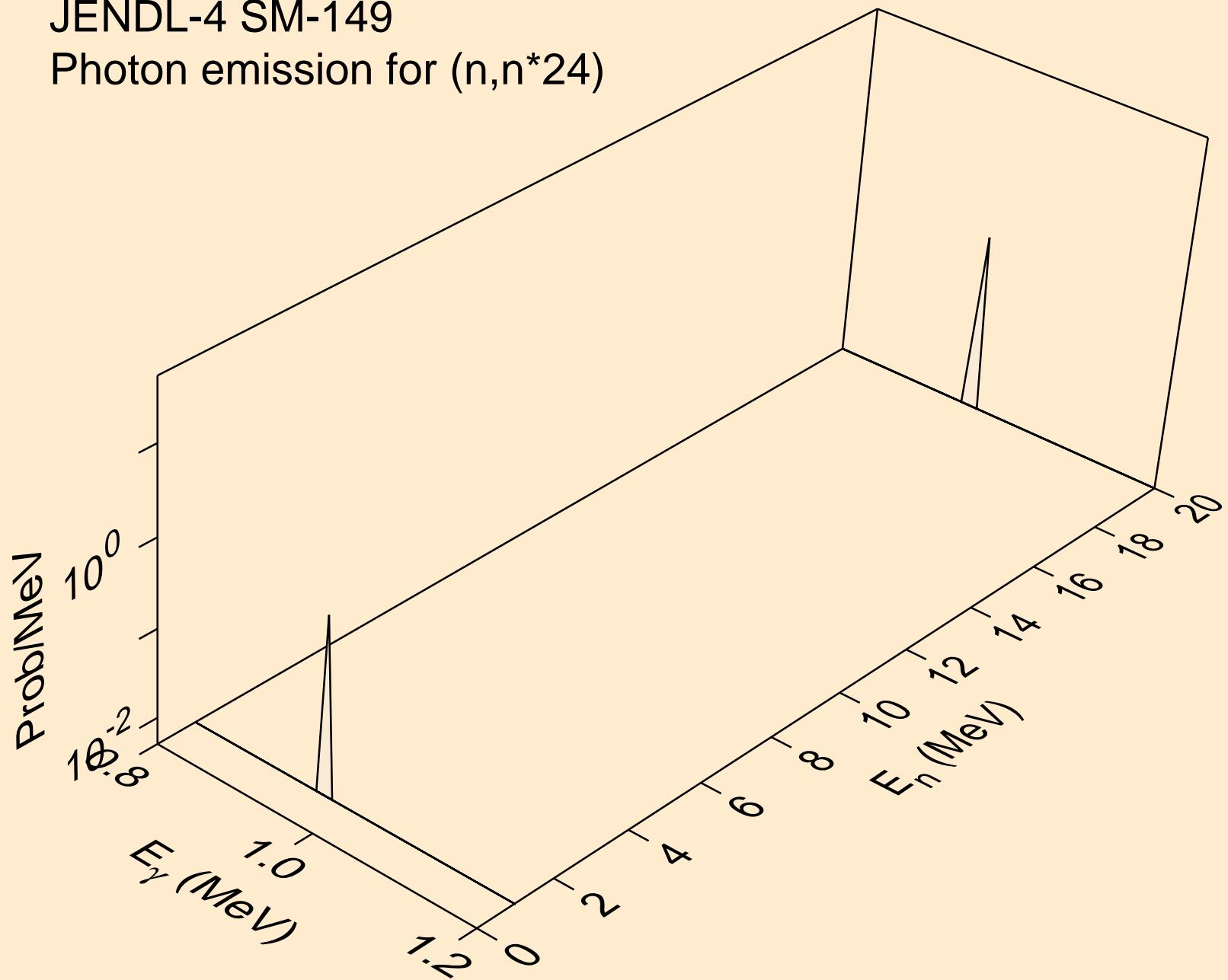
JENDL-4 SM-149  
Photon emission for ( $n, n^* 22$ )



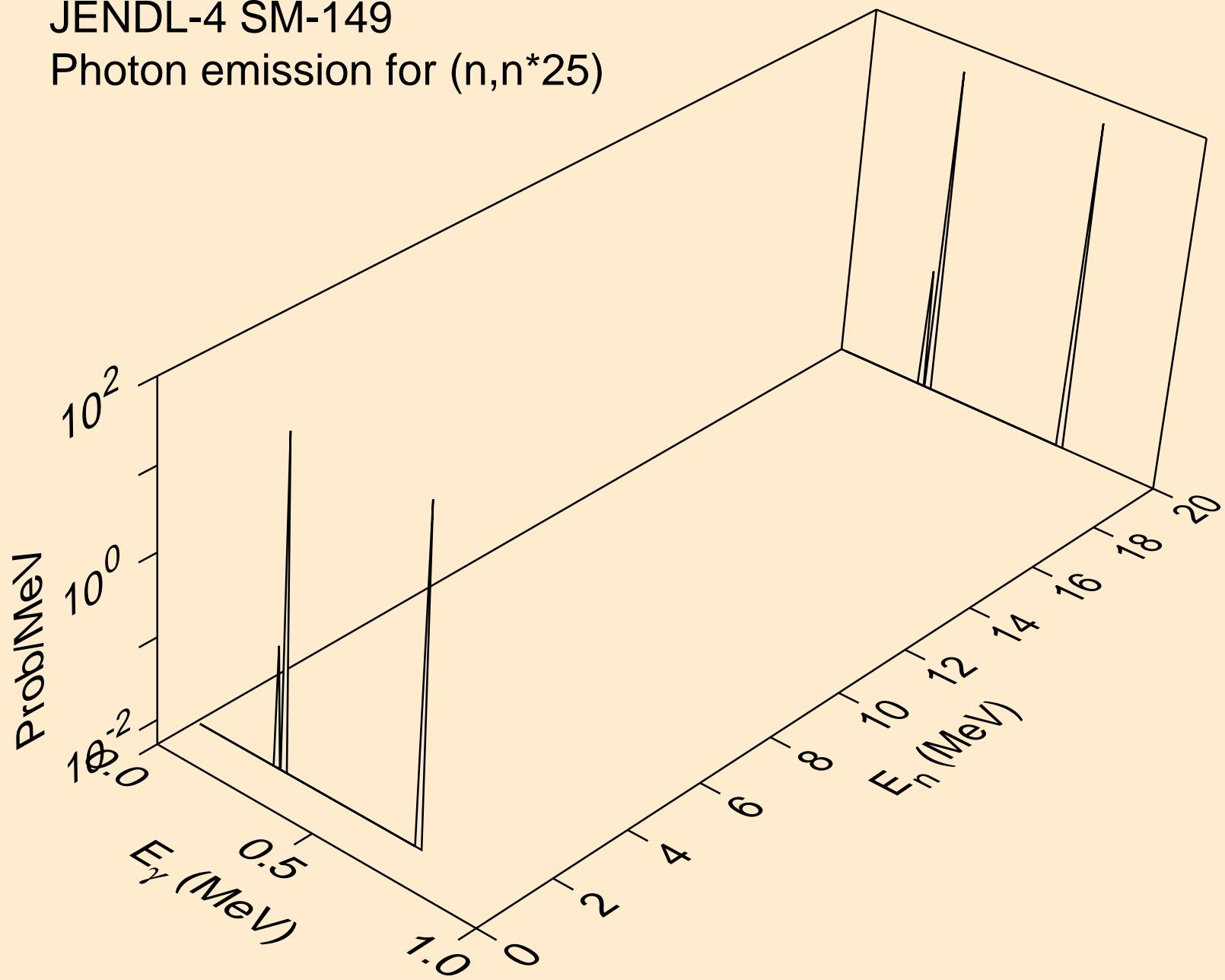
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Photon emission for ( $n, n^* 23$ )



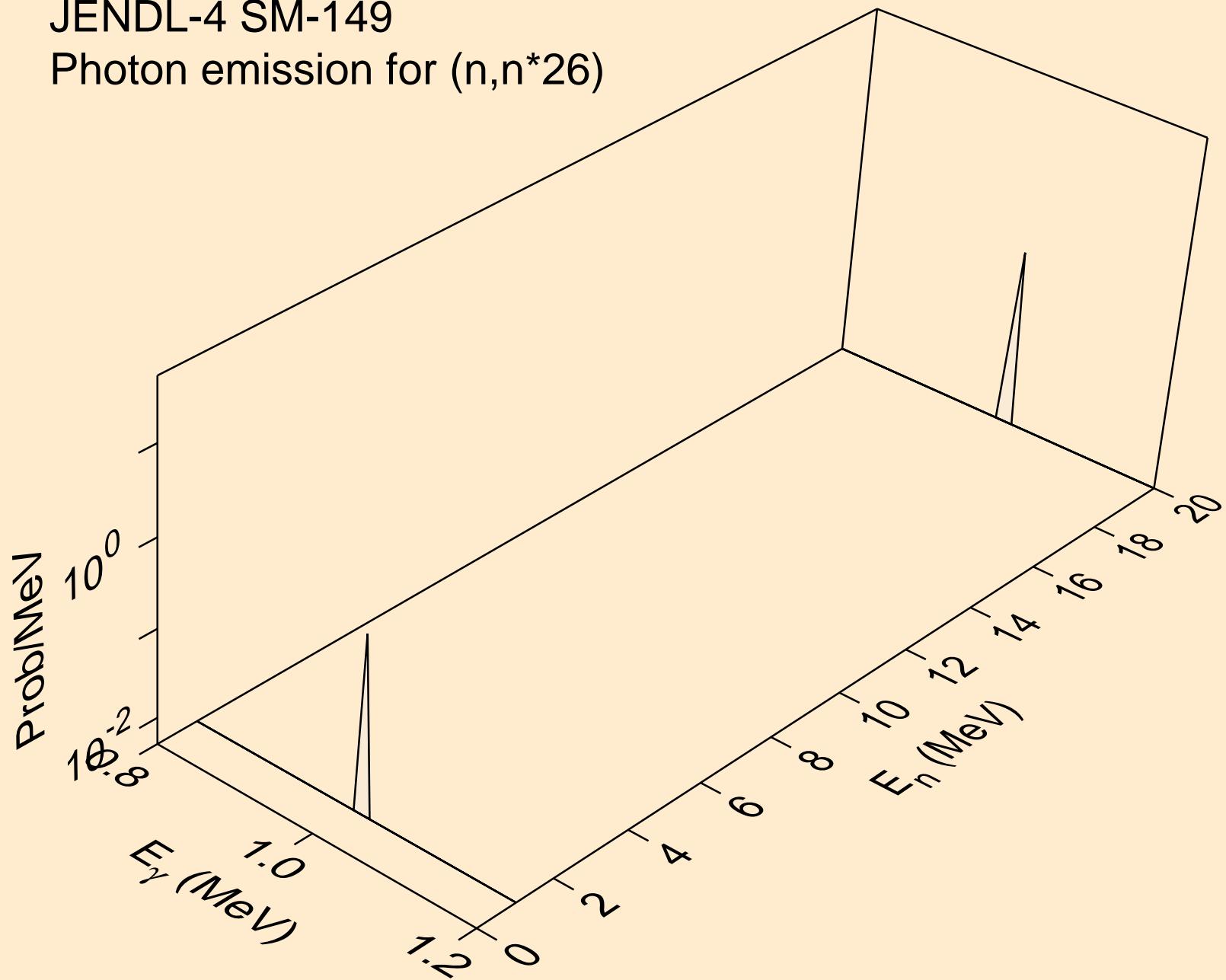
JENDL-4 SM-149  
Photon emission for ( $n, n^* 24$ )



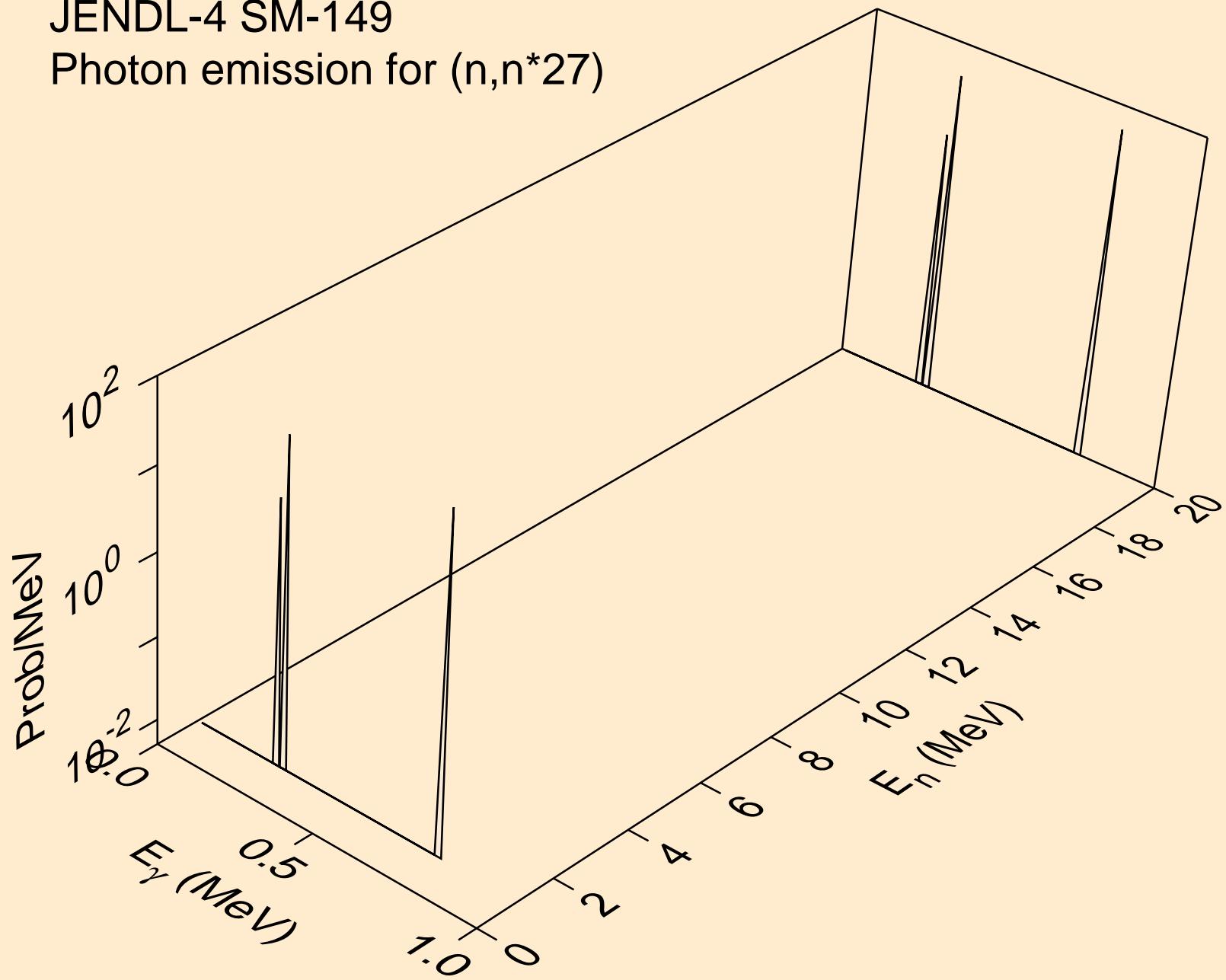
JENDL-4 SM-149  
Photon emission for (n,n\*25)



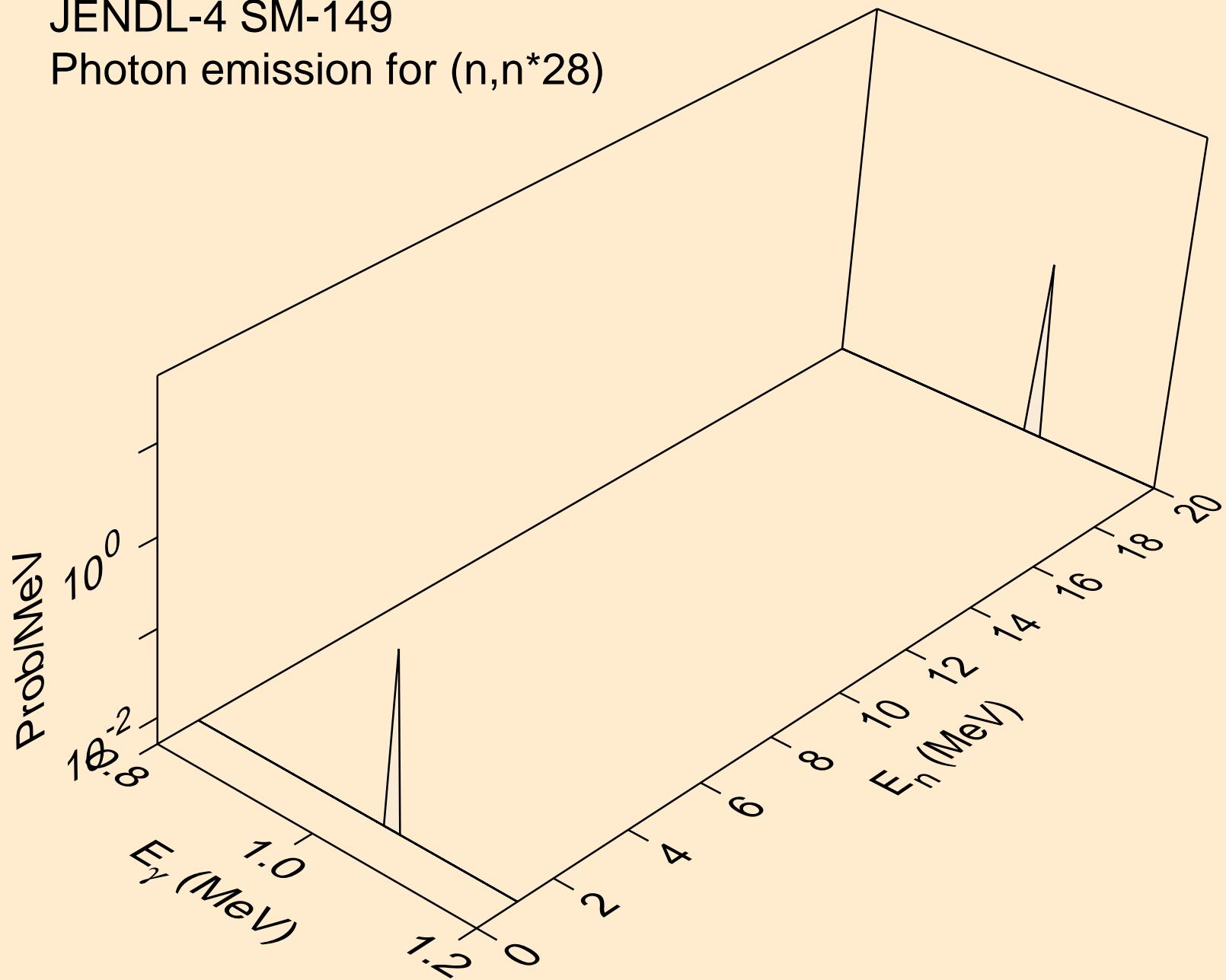
JENDL-4 SM-149  
Photon emission for ( $n, n^* 26$ )



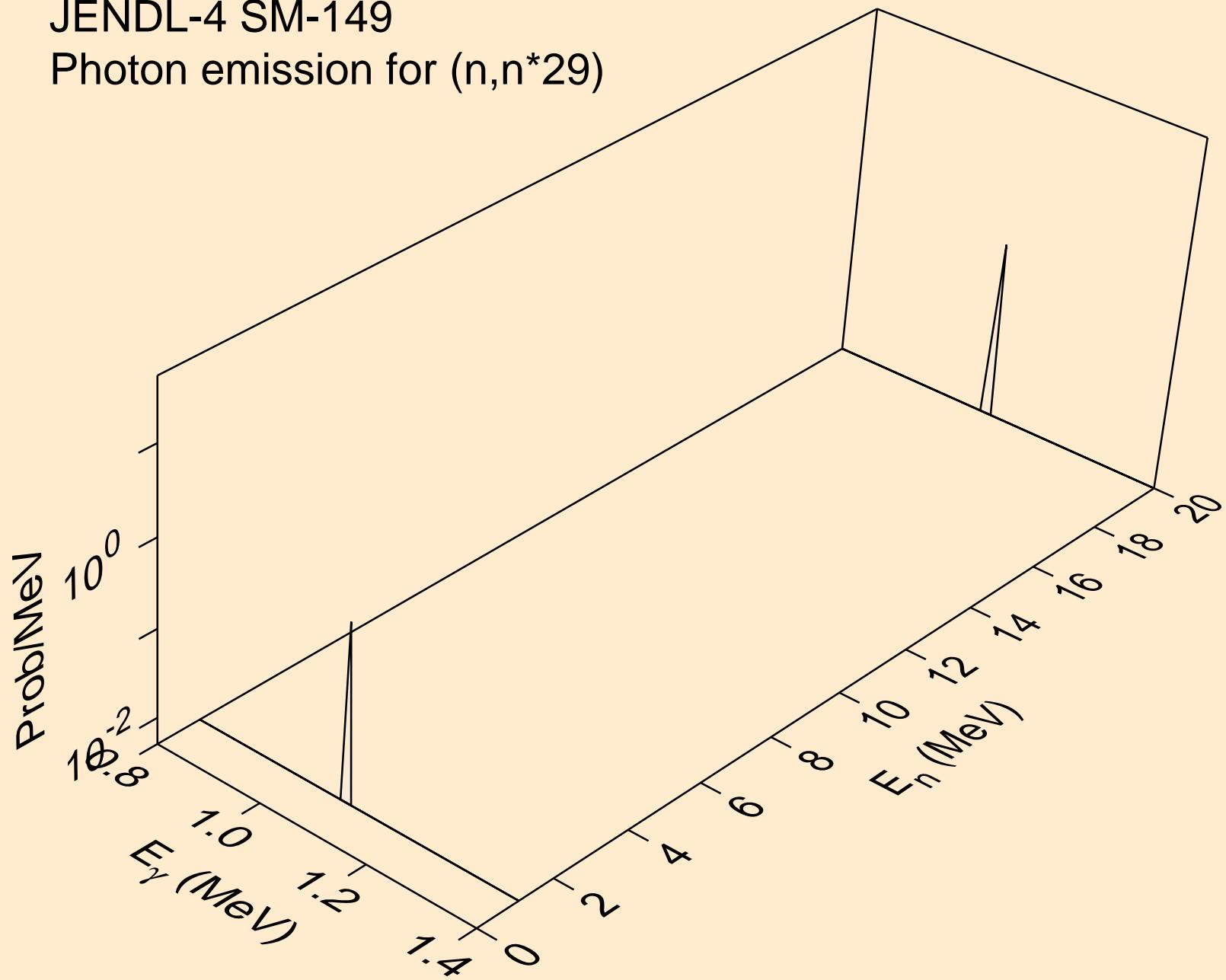
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Photon emission for ( $n, n^* 27$ )



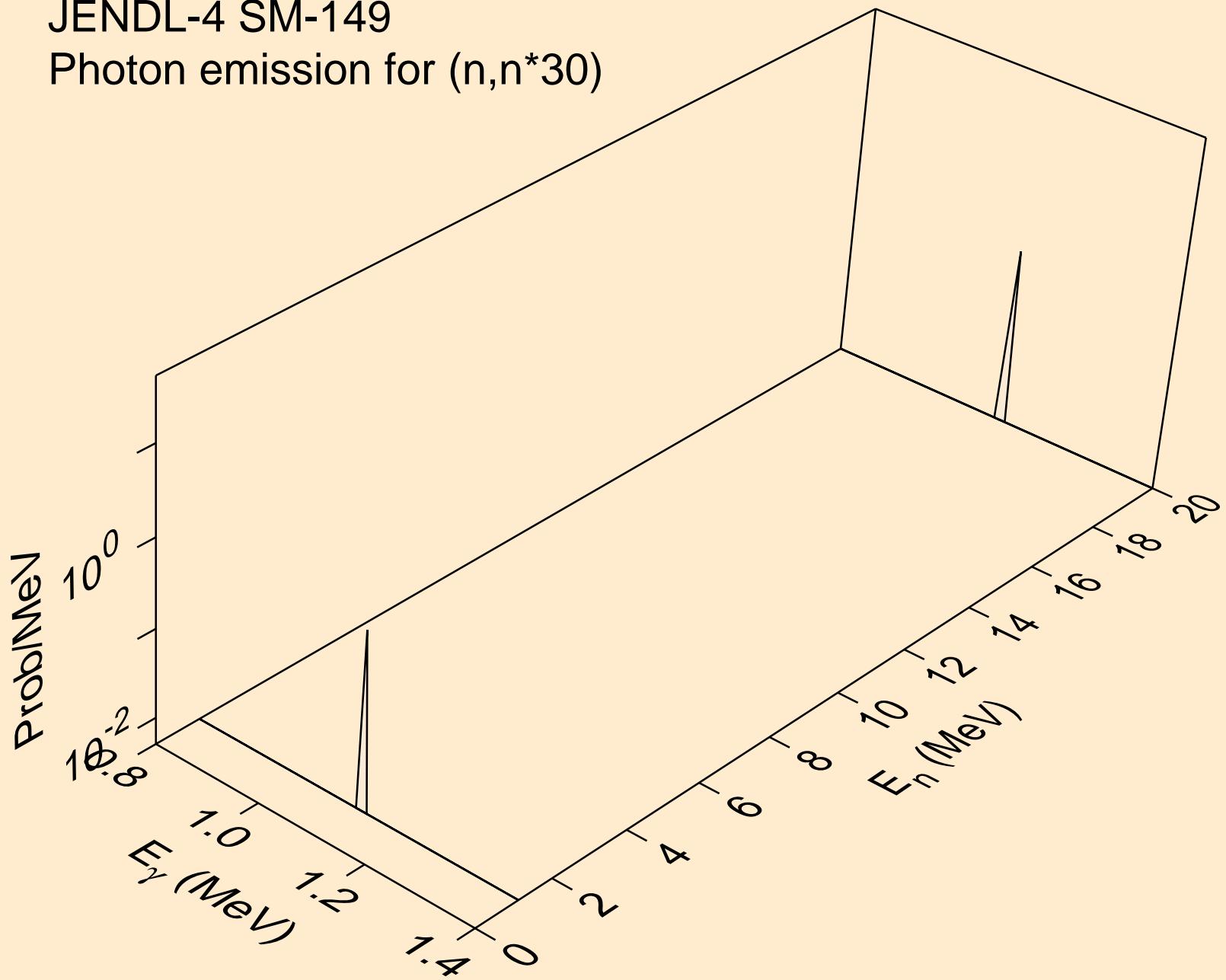
JENDL-4 SM-149  
Photon emission for ( $n, n^*$ )<sup>28</sup>



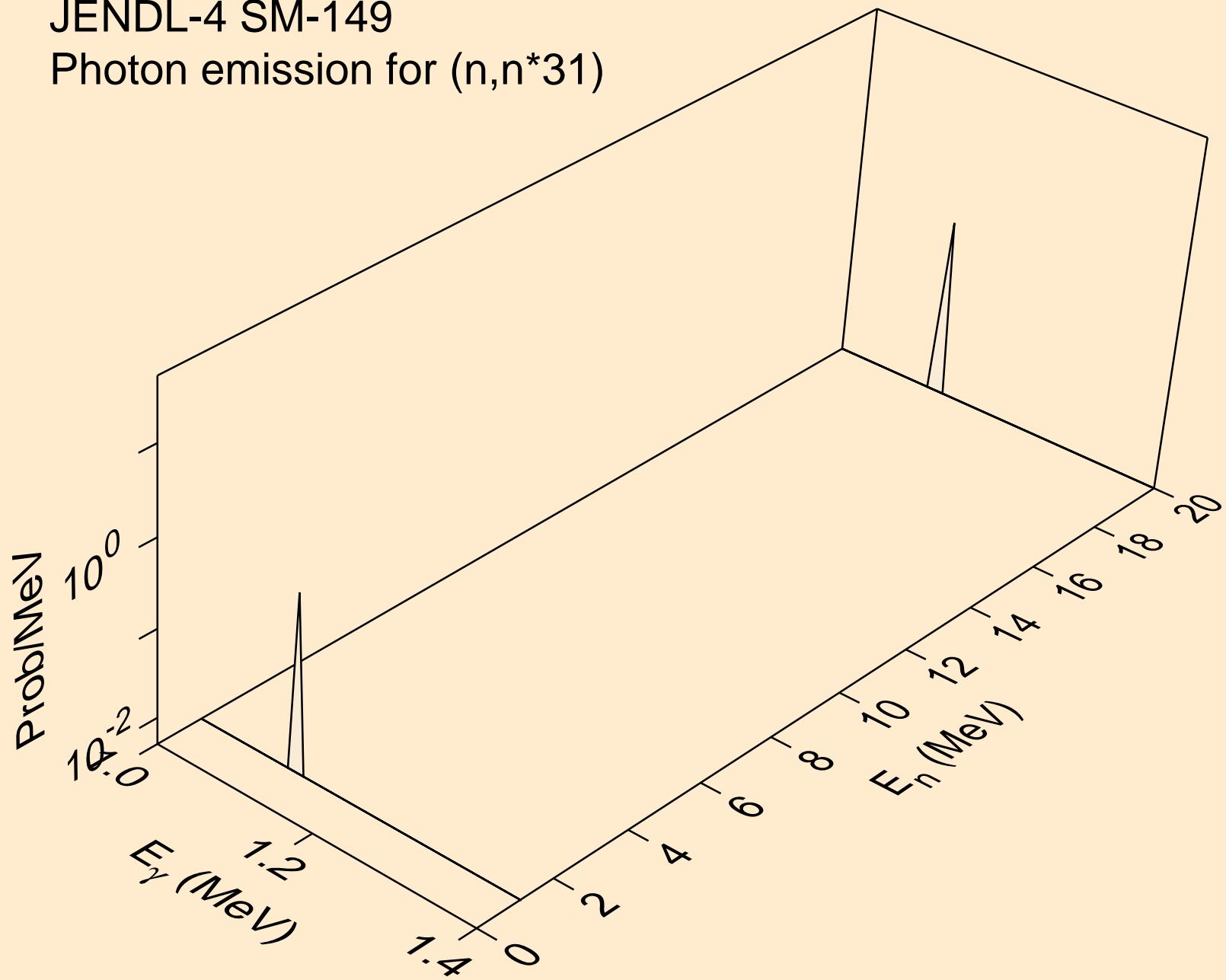
JENDL-4 SM-149  
Photon emission for ( $n, n^* 29$ )



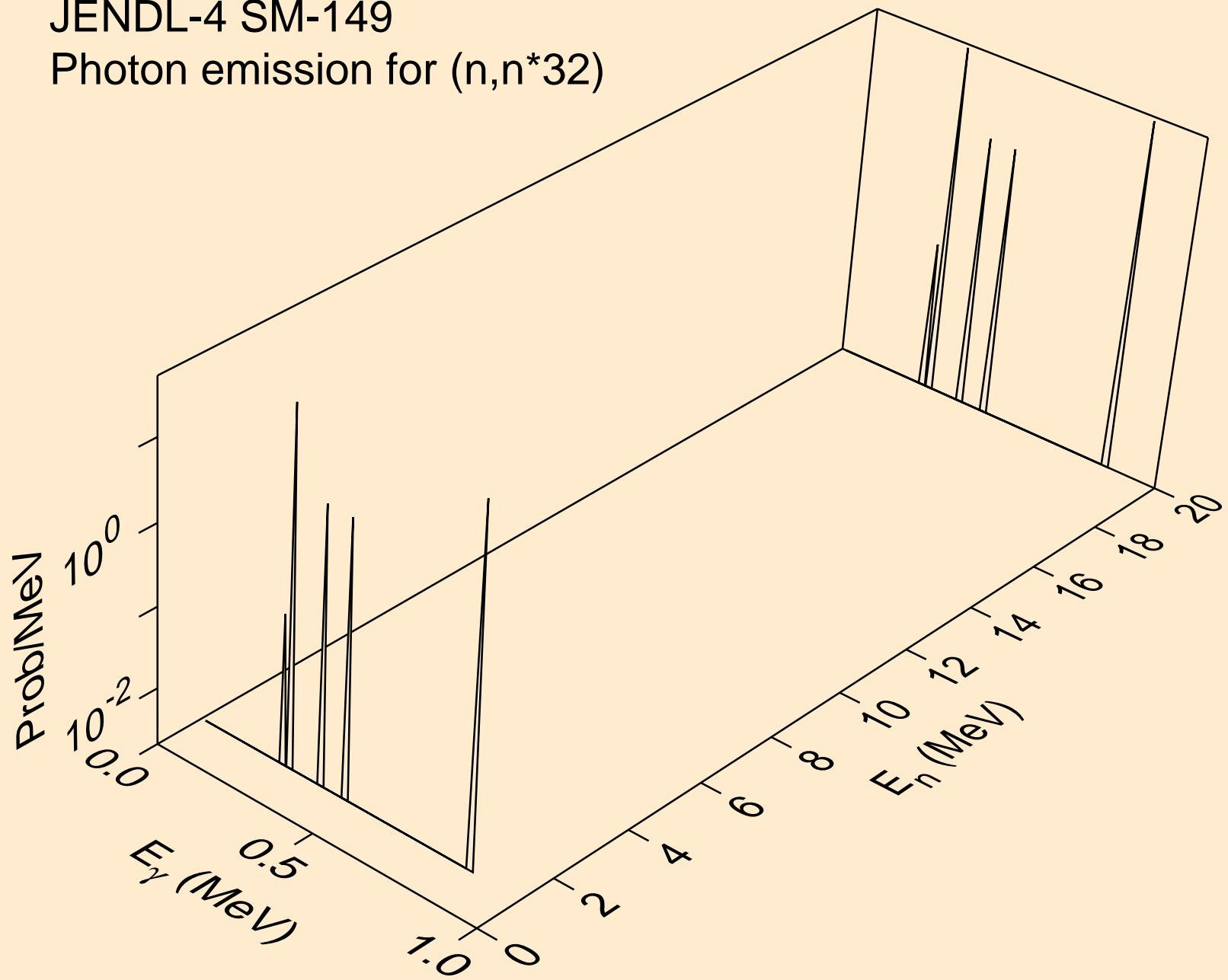
JENDL-4 SM-149  
Photon emission for ( $n, n^*$ )30



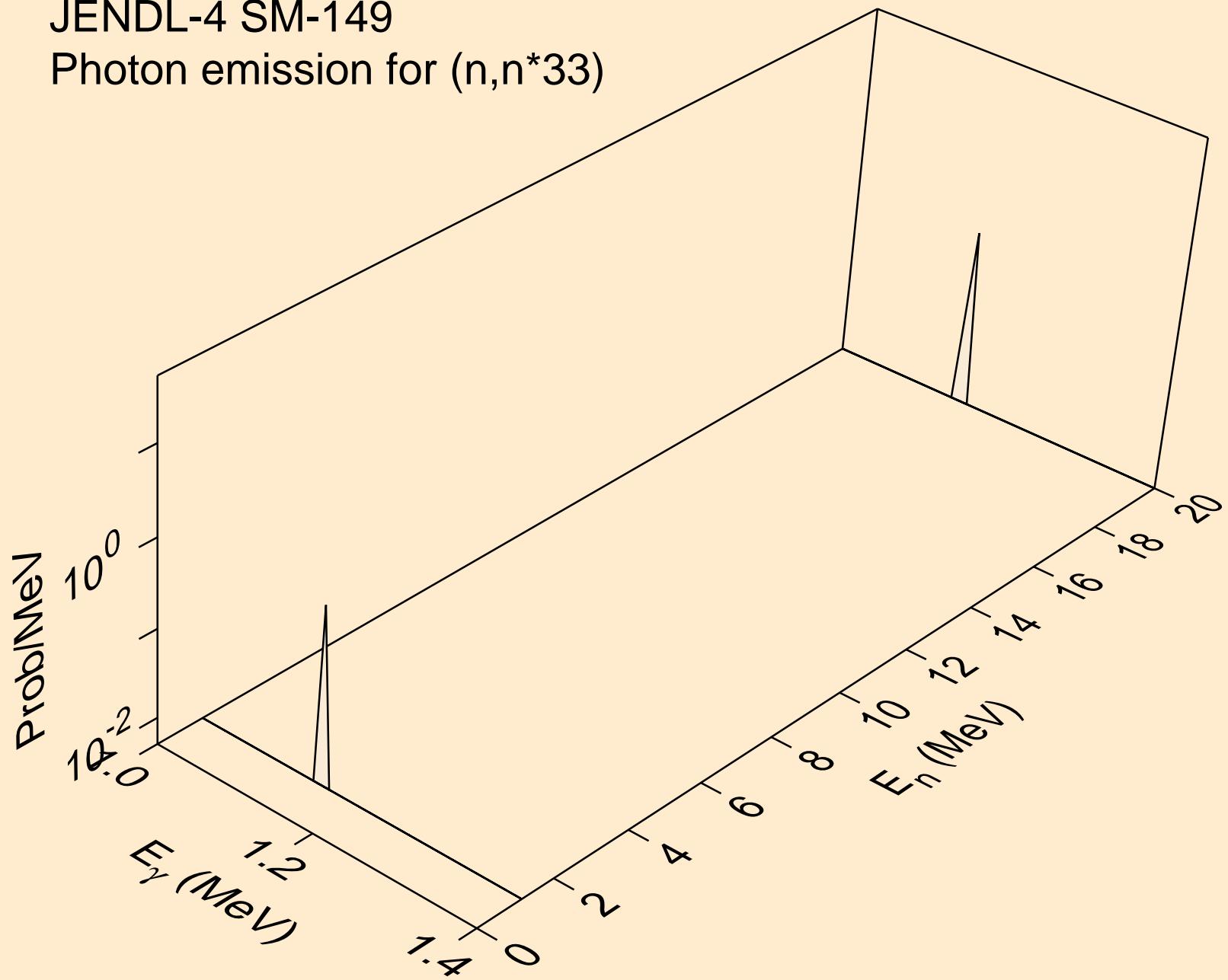
JENDL-4 SM-149  
Photon emission for ( $n, n^*$ )<sup>31</sup>



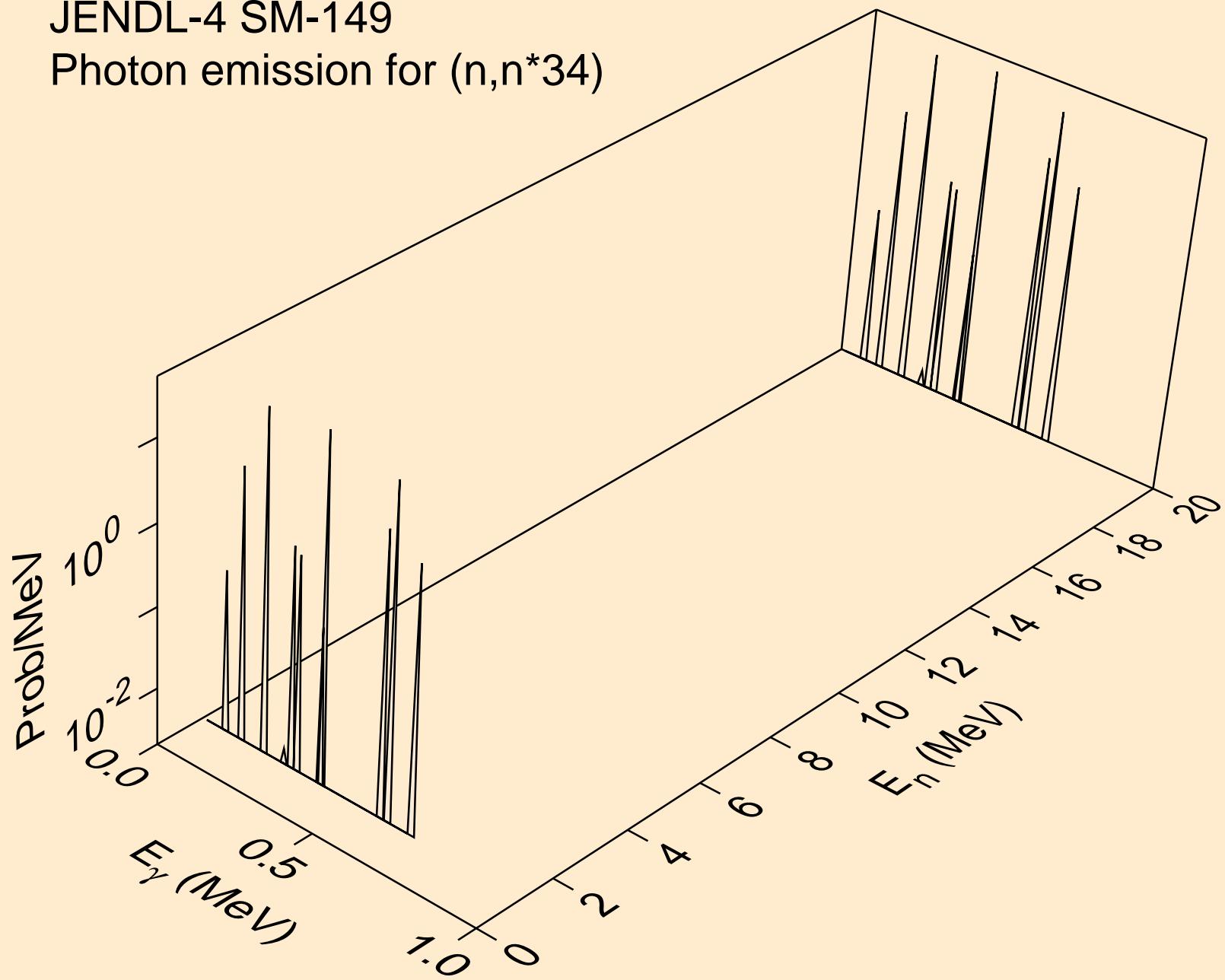
JENDL-4 SM-149  
Photon emission for ( $n, n^* 32$ )



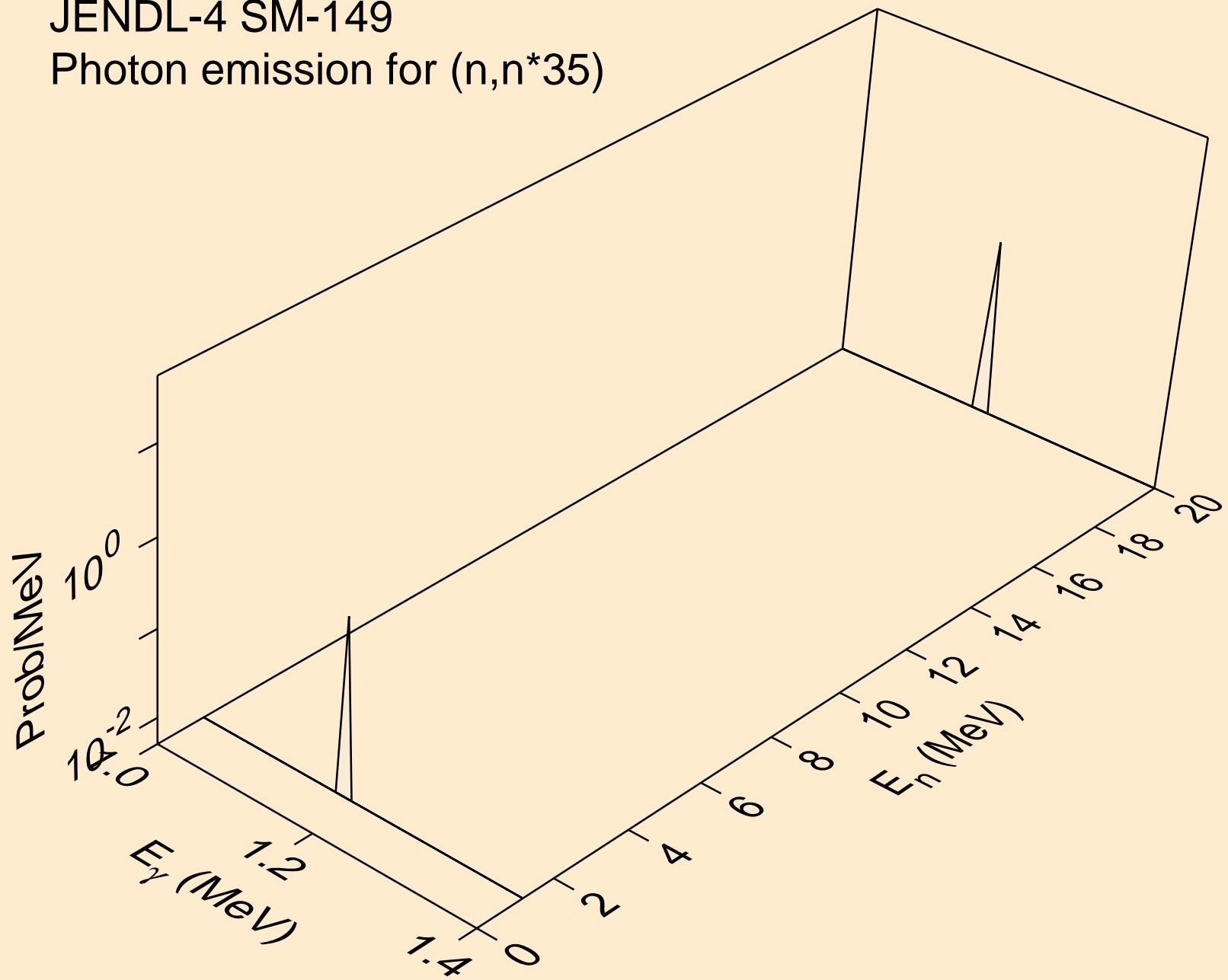
JENDL-4 SM-149  
Photon emission for ( $n, n^*$ )<sup>33</sup>



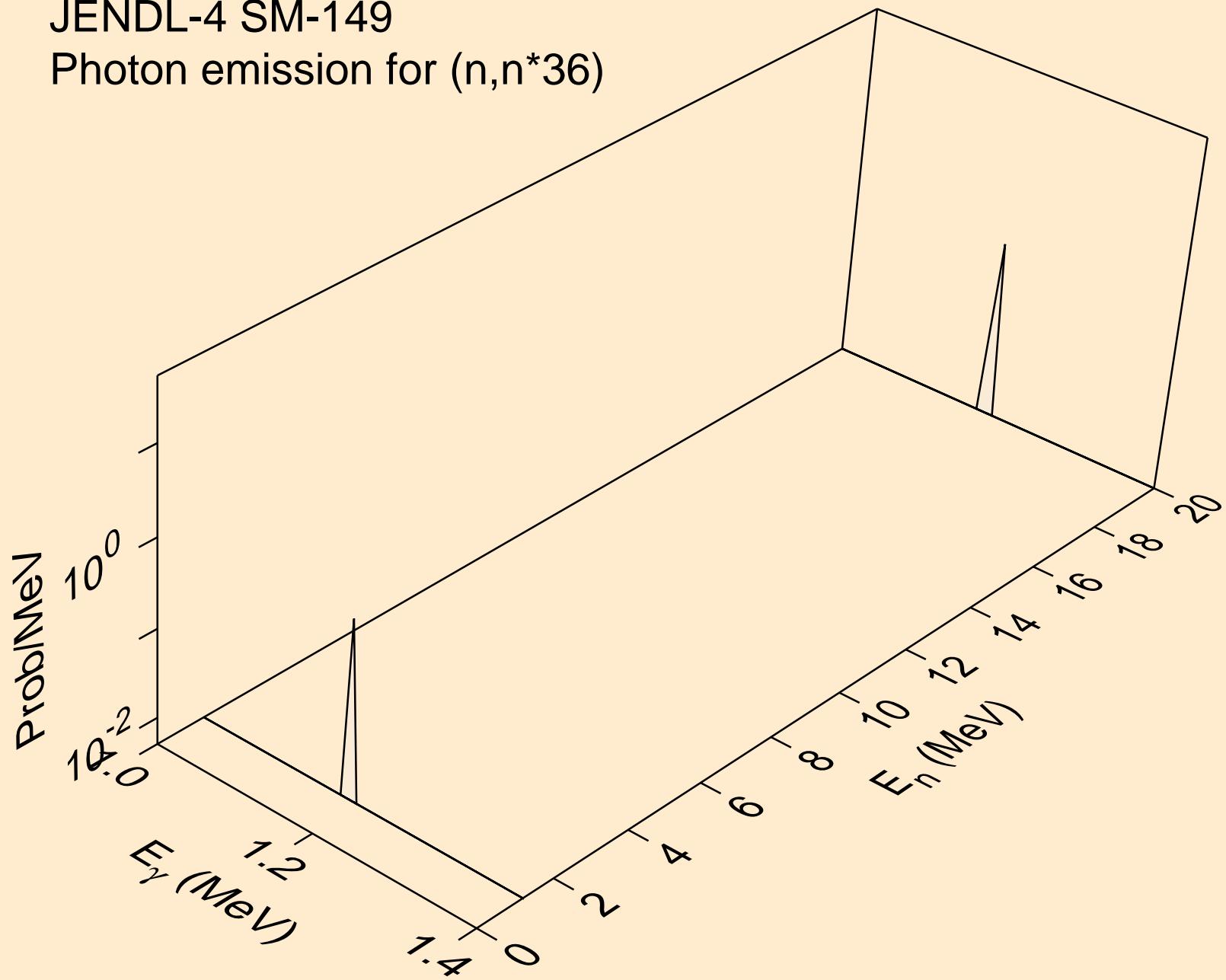
JENDL-4 SM-149  
Photon emission for ( $n, n^* 34$ )



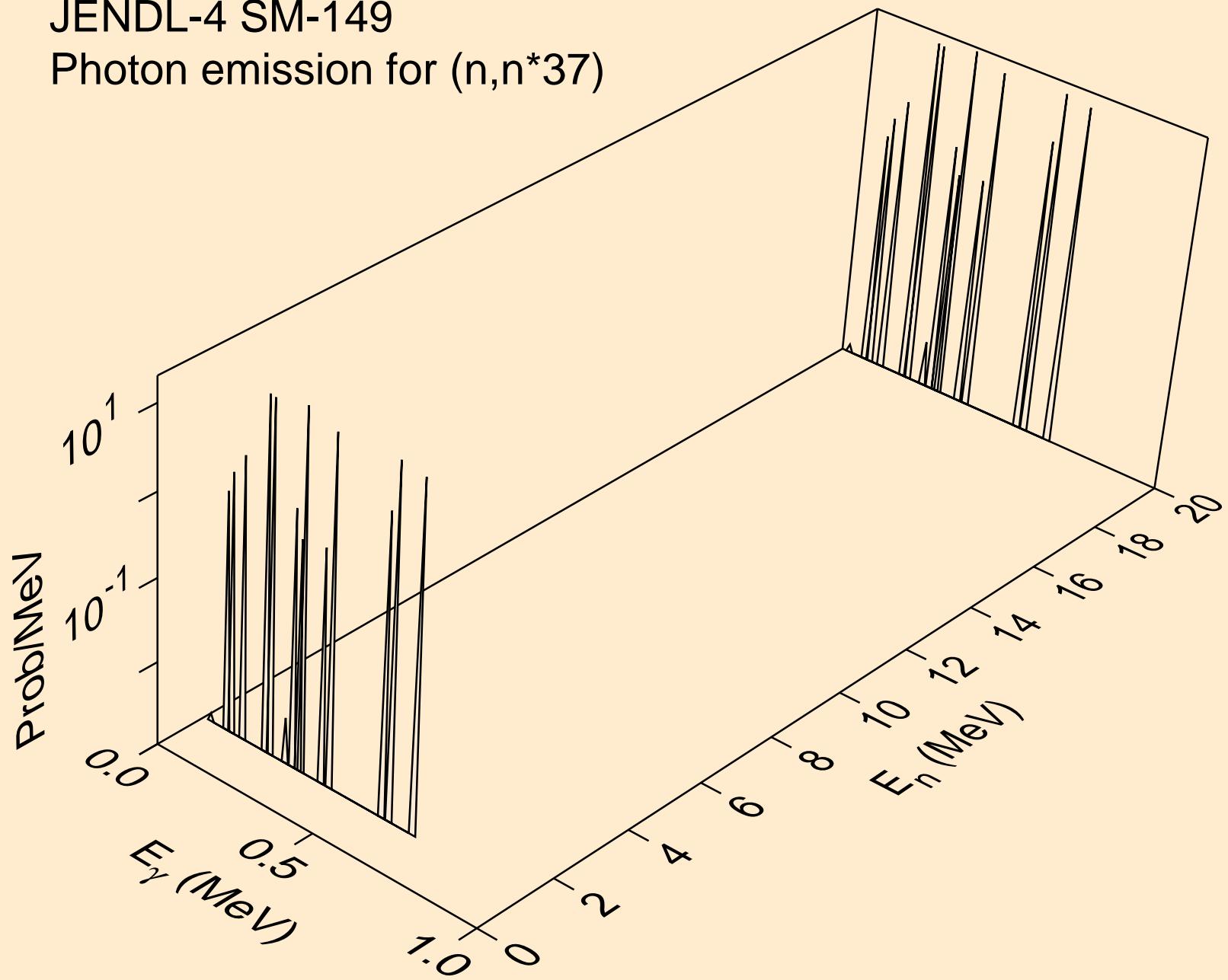
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Photon emission for ( $n, n^*$ )<sup>35</sup>



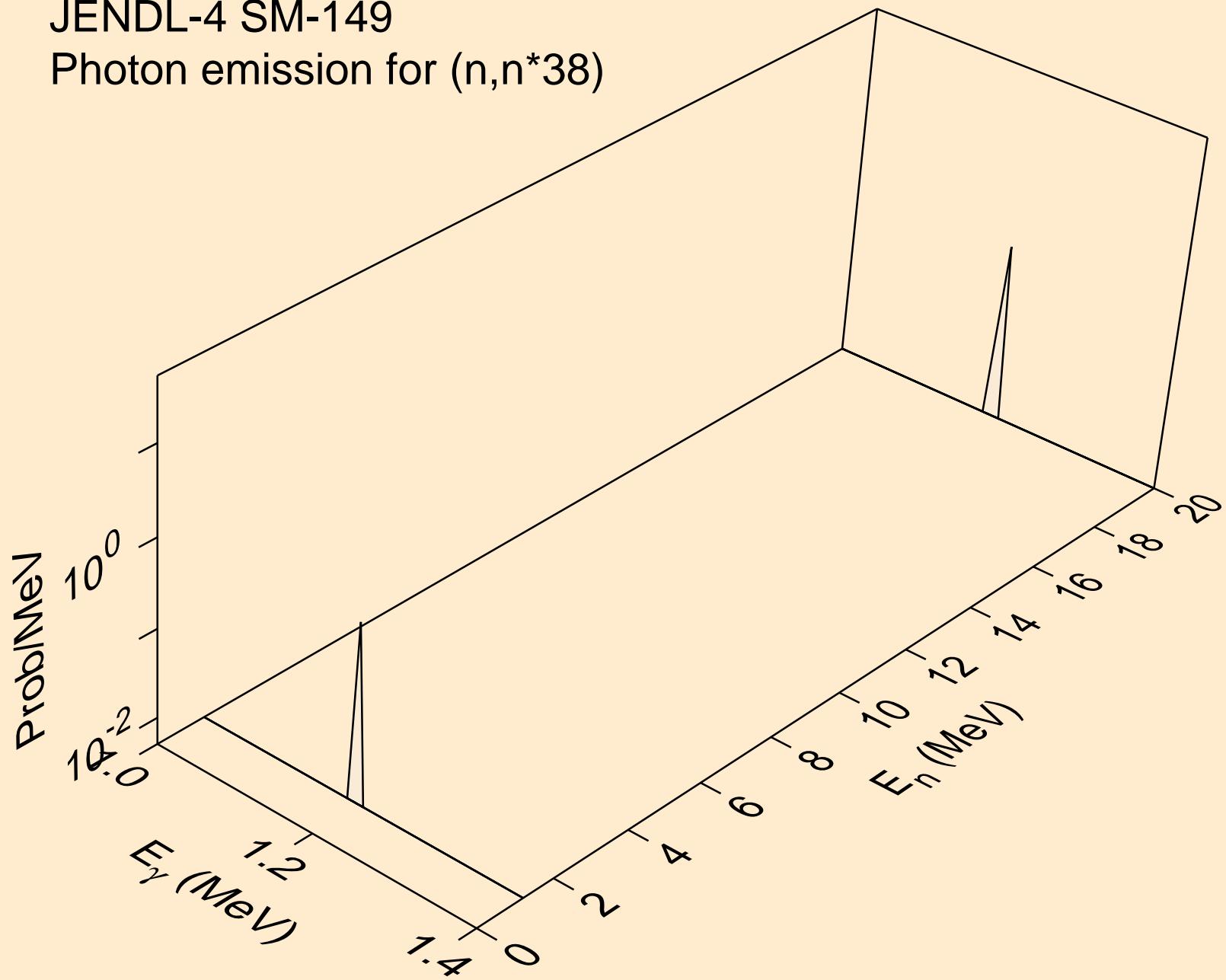
JENDL-4 SM-149  
Photon emission for ( $n, n^*$ )36



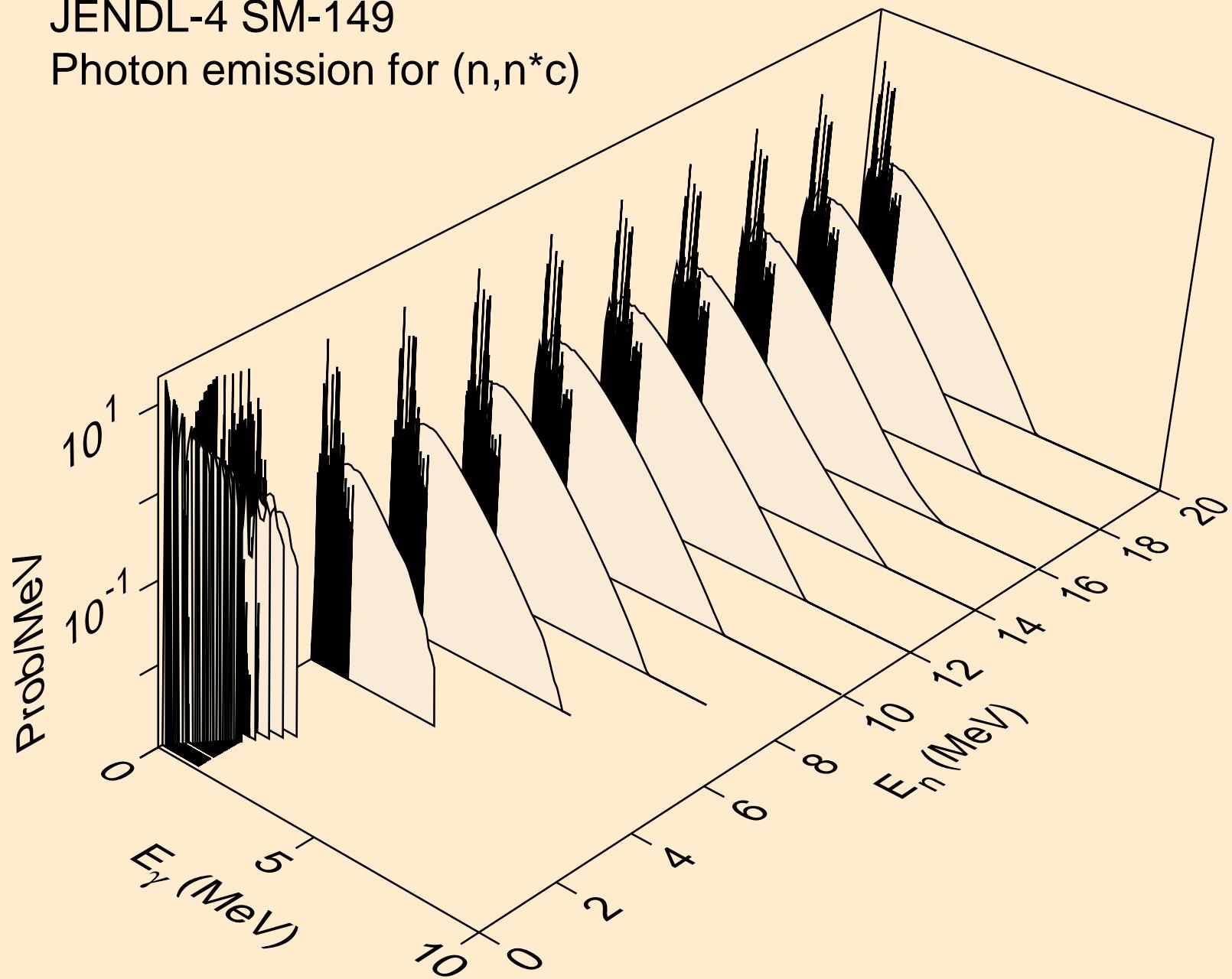
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Photon emission for ( $n, n^*$ )<sup>37</sup>



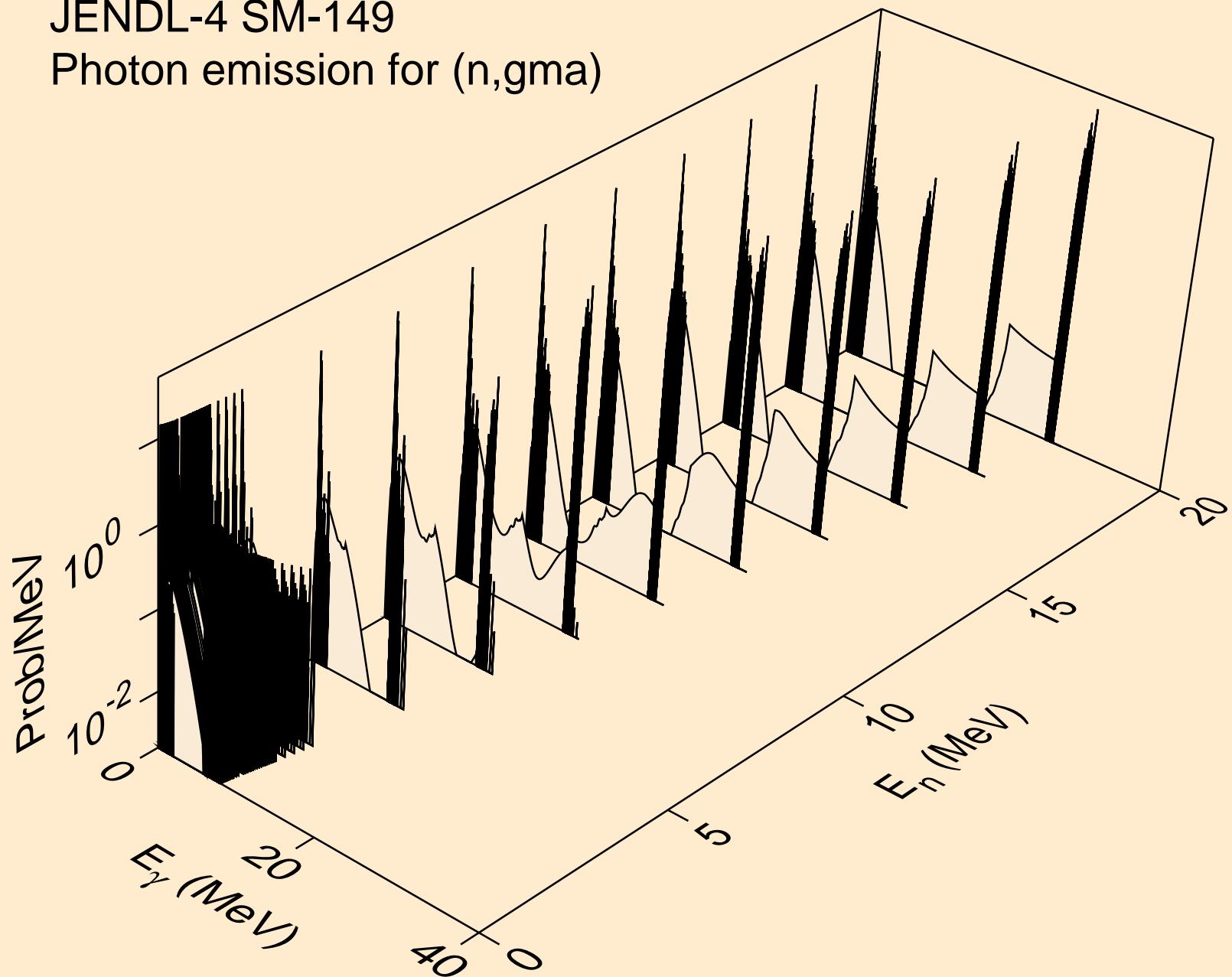
JENDL-4 SM-149  
Photon emission for ( $n, n^*$ )38



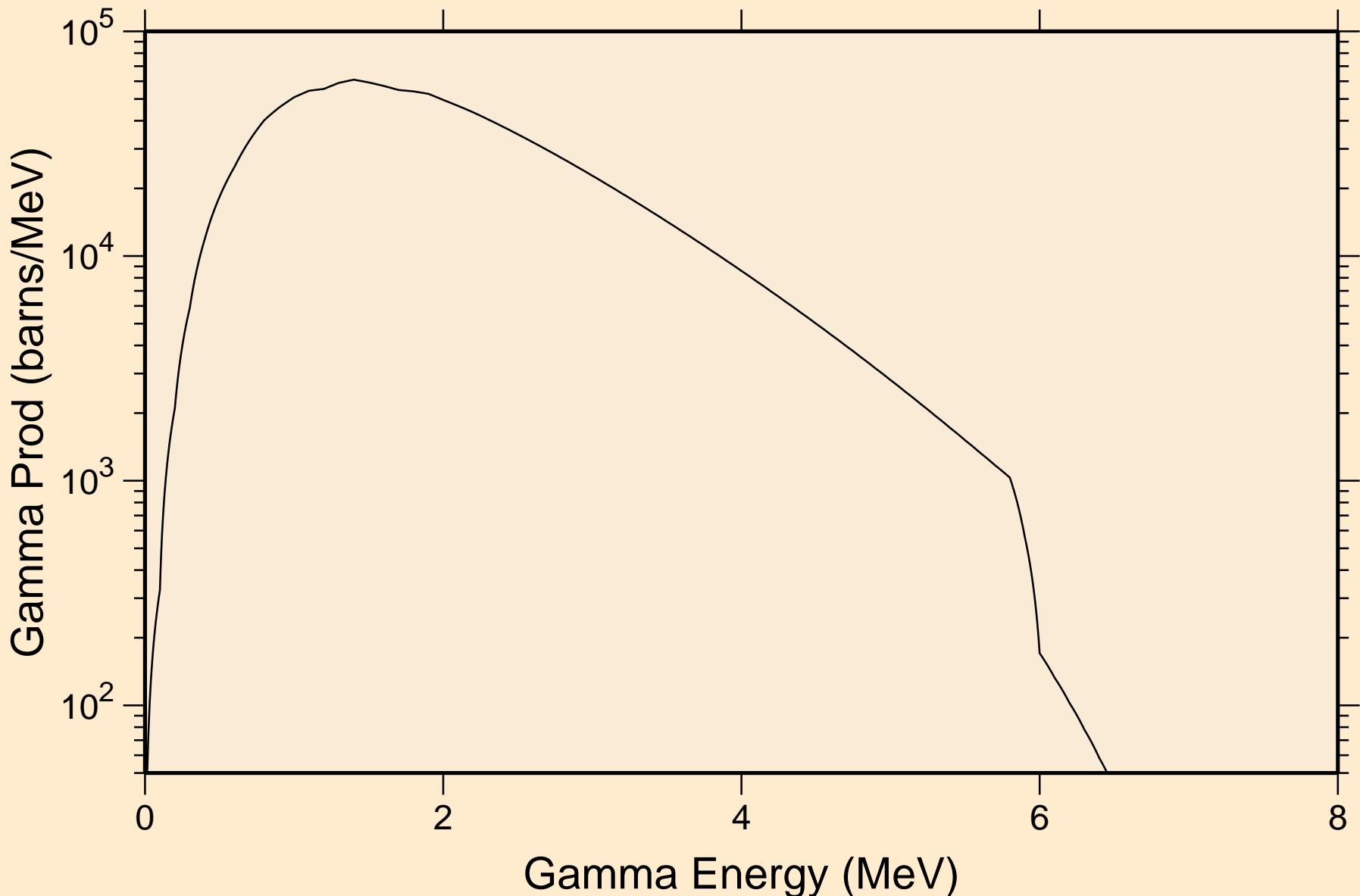
JENDL-4 SM-149  
Photon emission for  $(n,n^*c)$



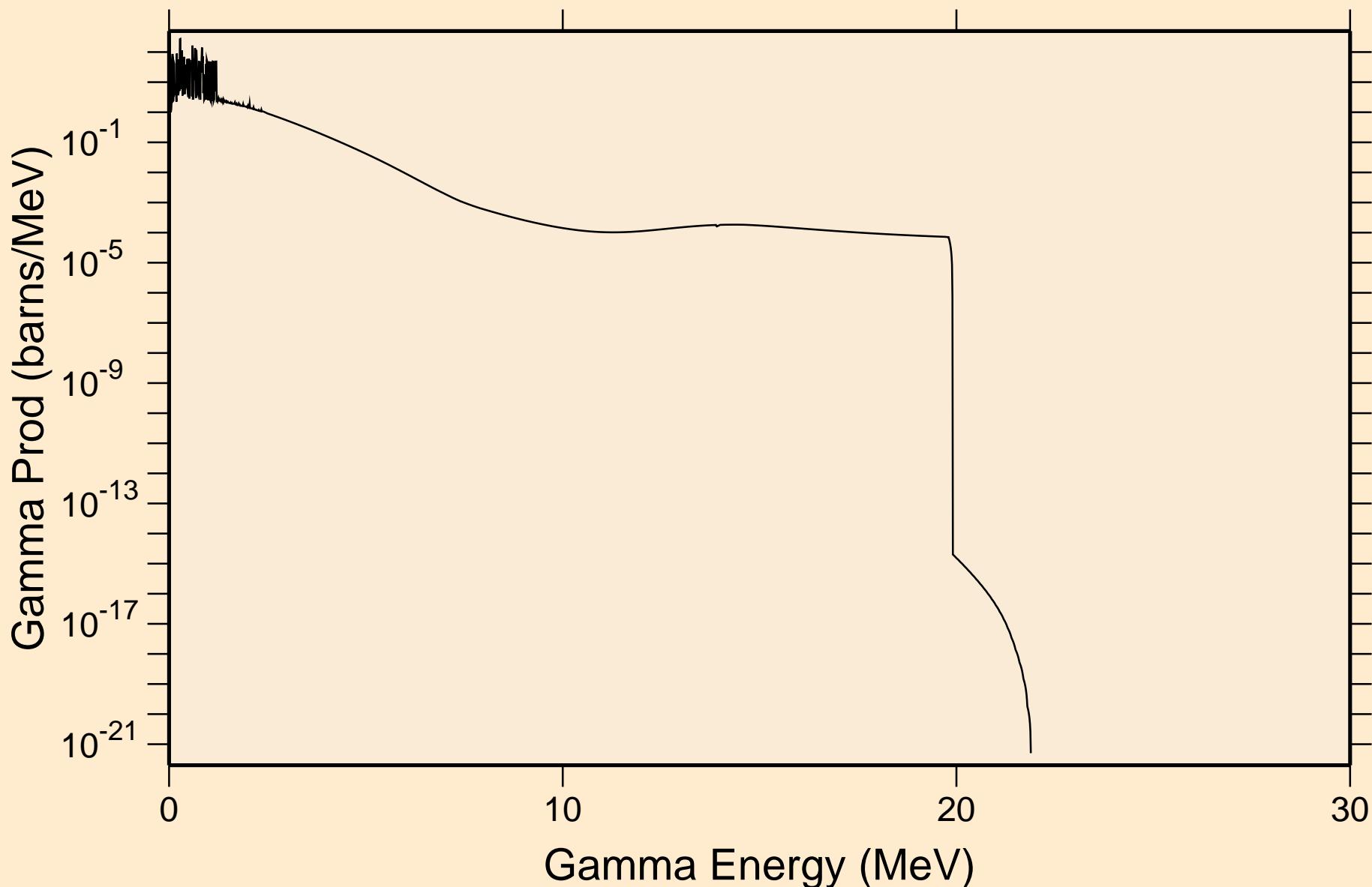
JENDL-4 SM-149  
Photon emission for (n,gma)



JENDL-4 SM-149  
thermal capture photon spectrum

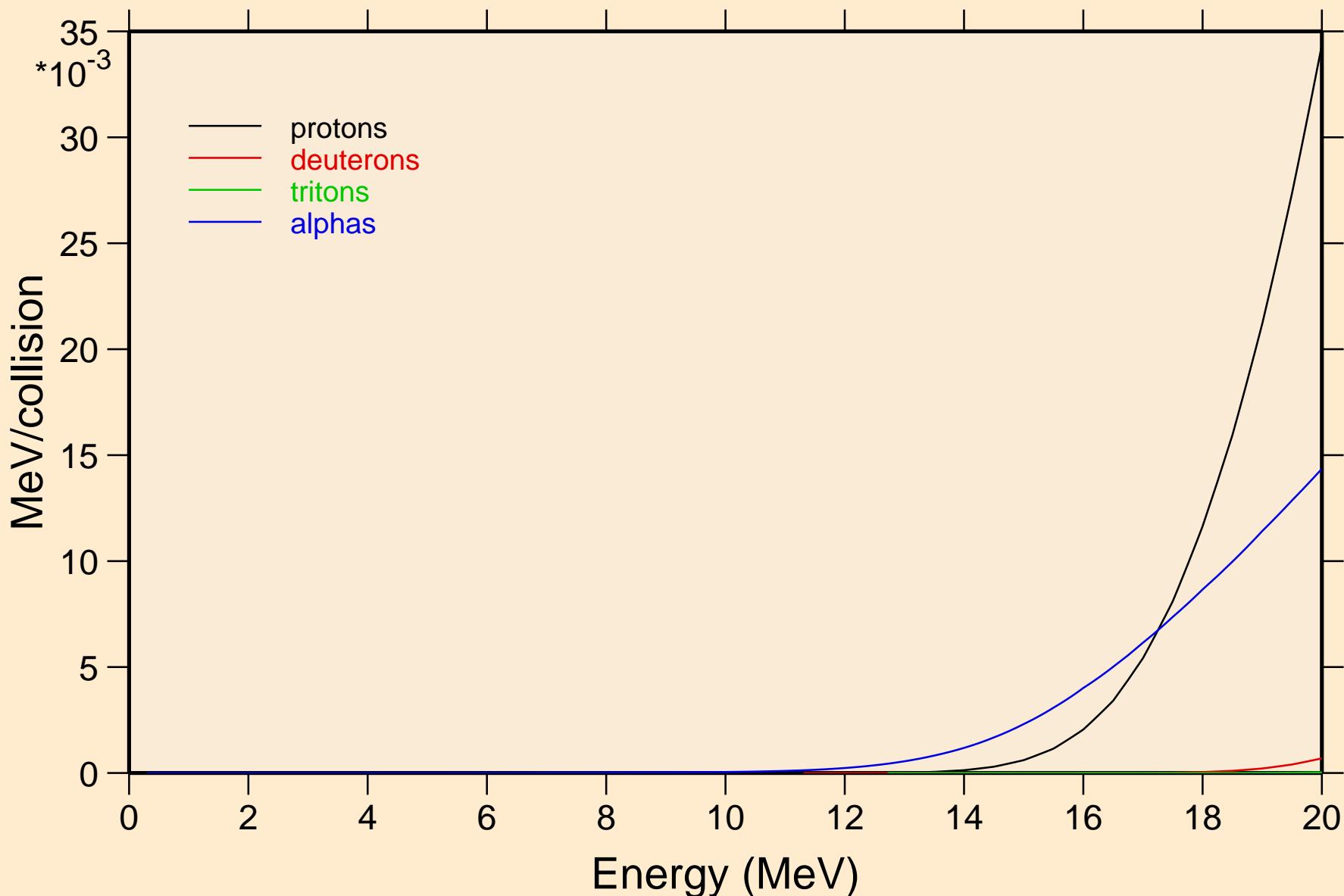


JENDL-4 SM-149  
14 MeV photon spectrum

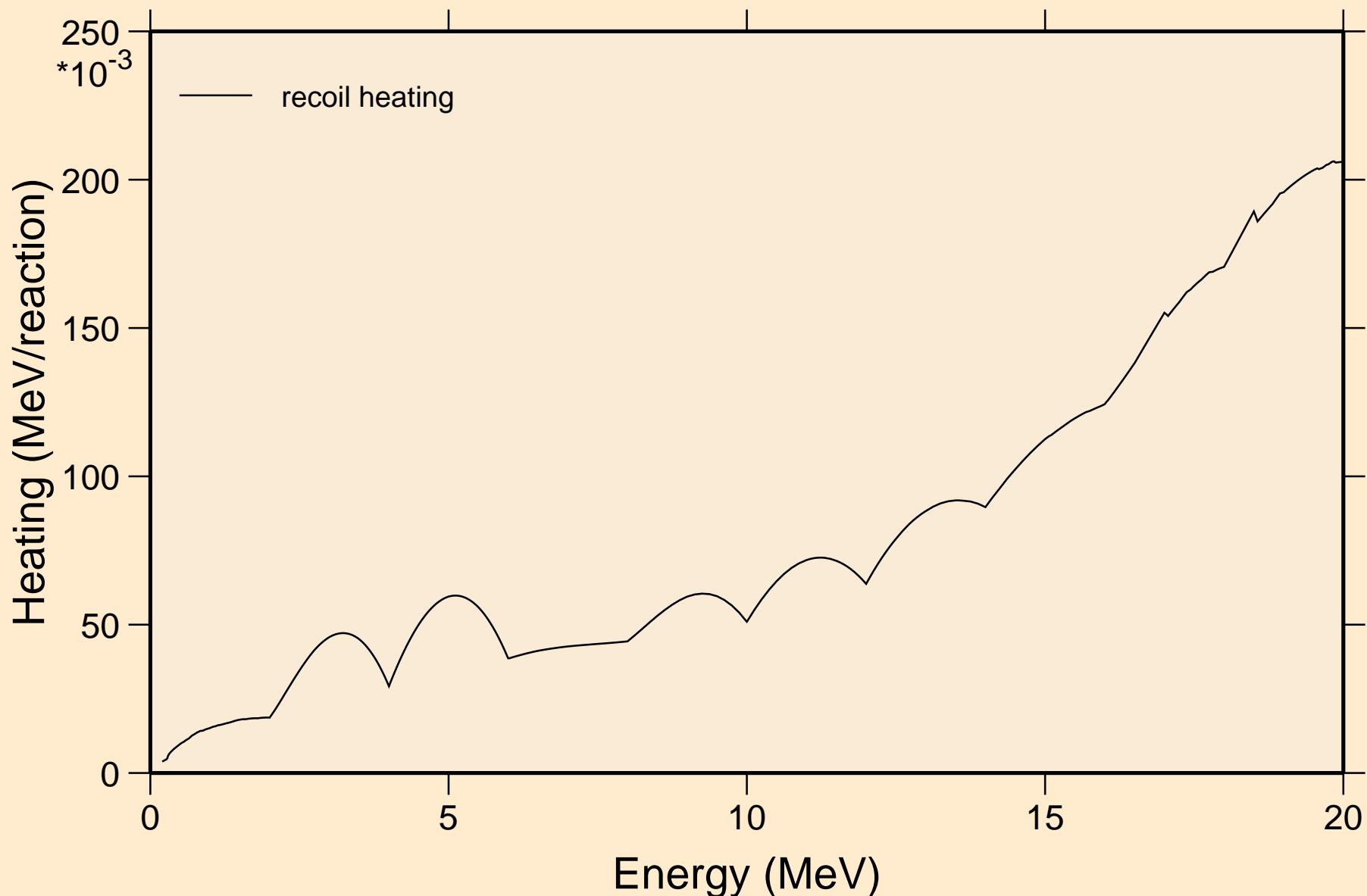


# JENDL-4 SM-149

## Particle heating contributions

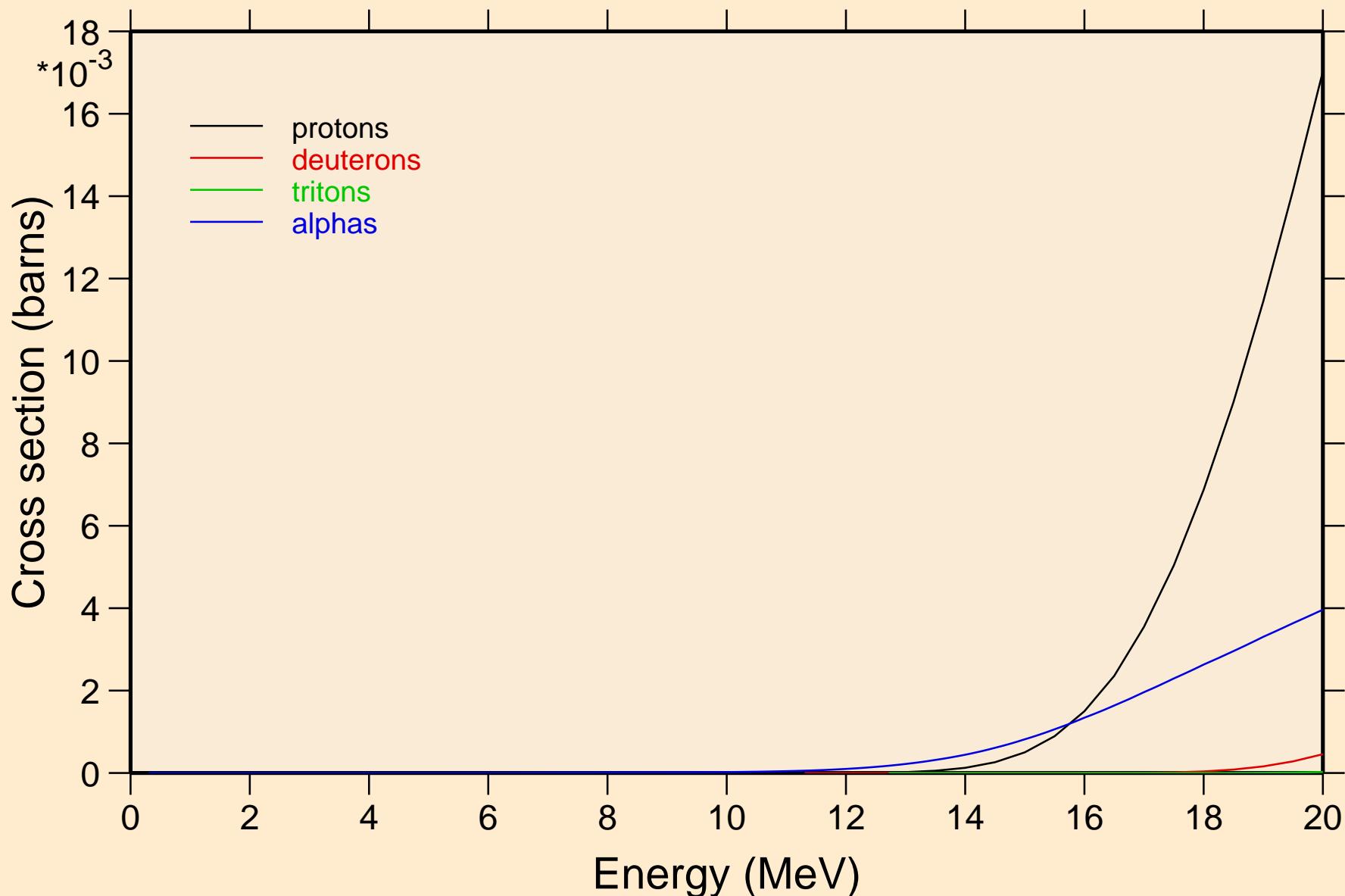


JENDL-4 SM-149  
Recoil Heating

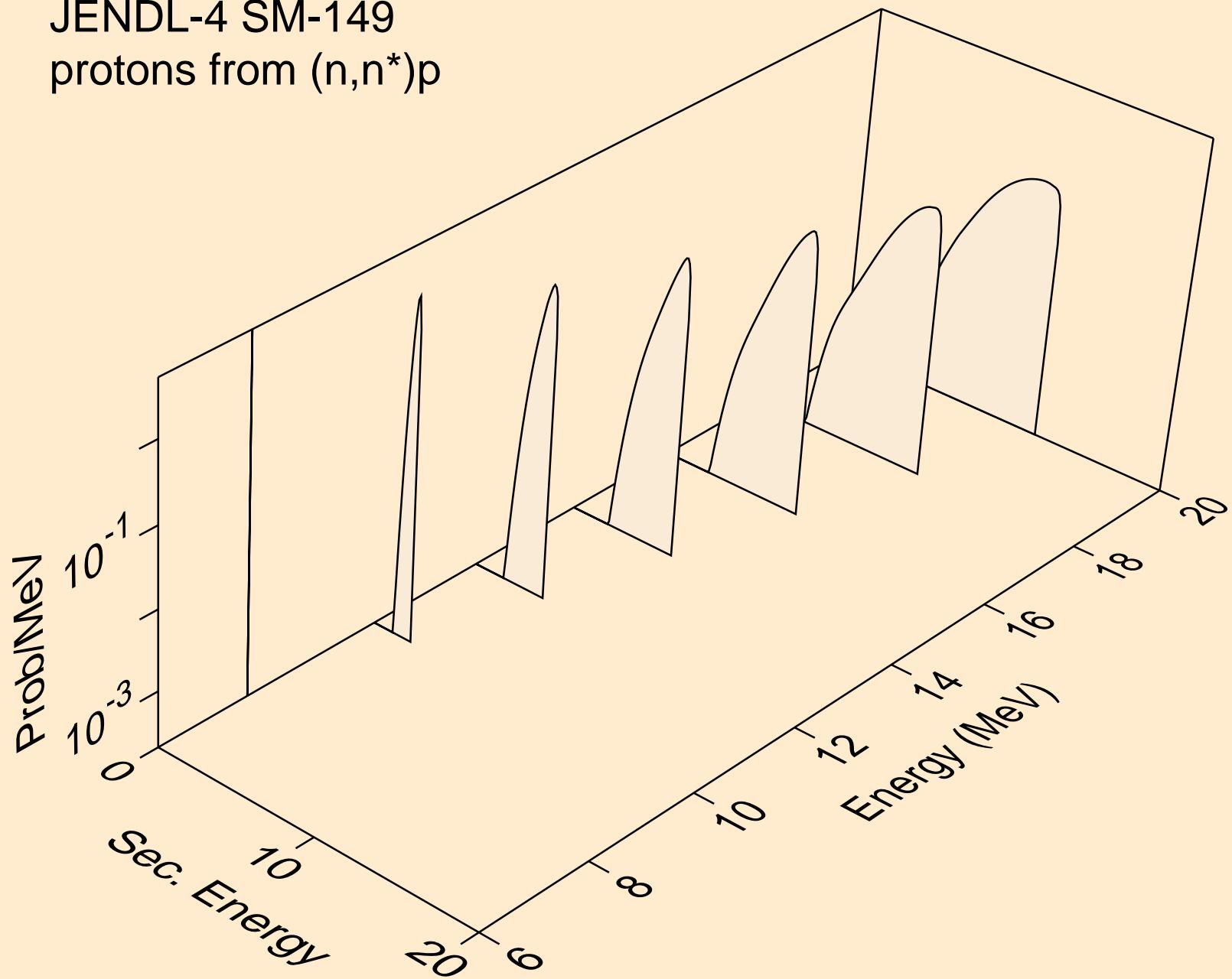


# JENDL-4 SM-149

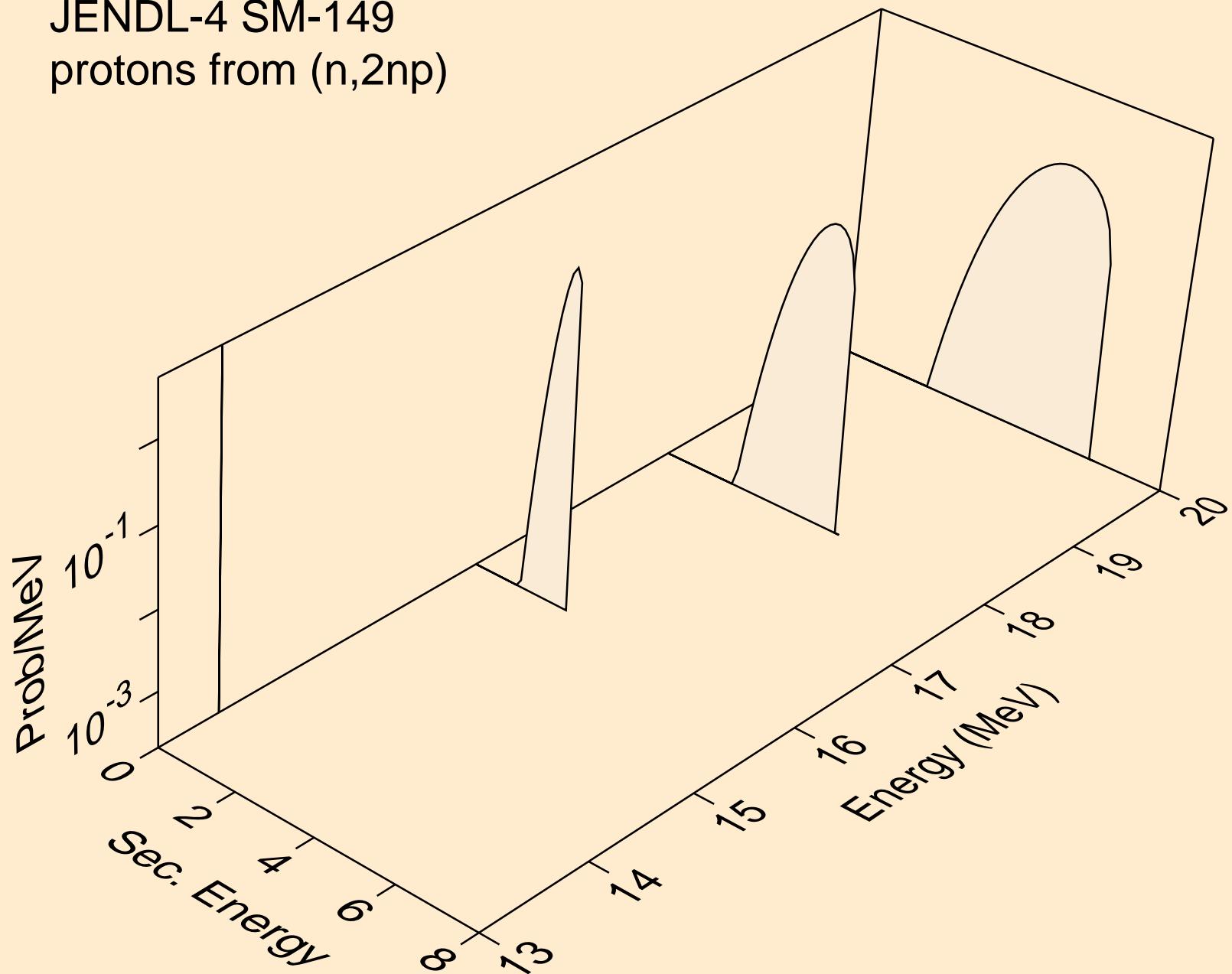
## Particle production cross sections



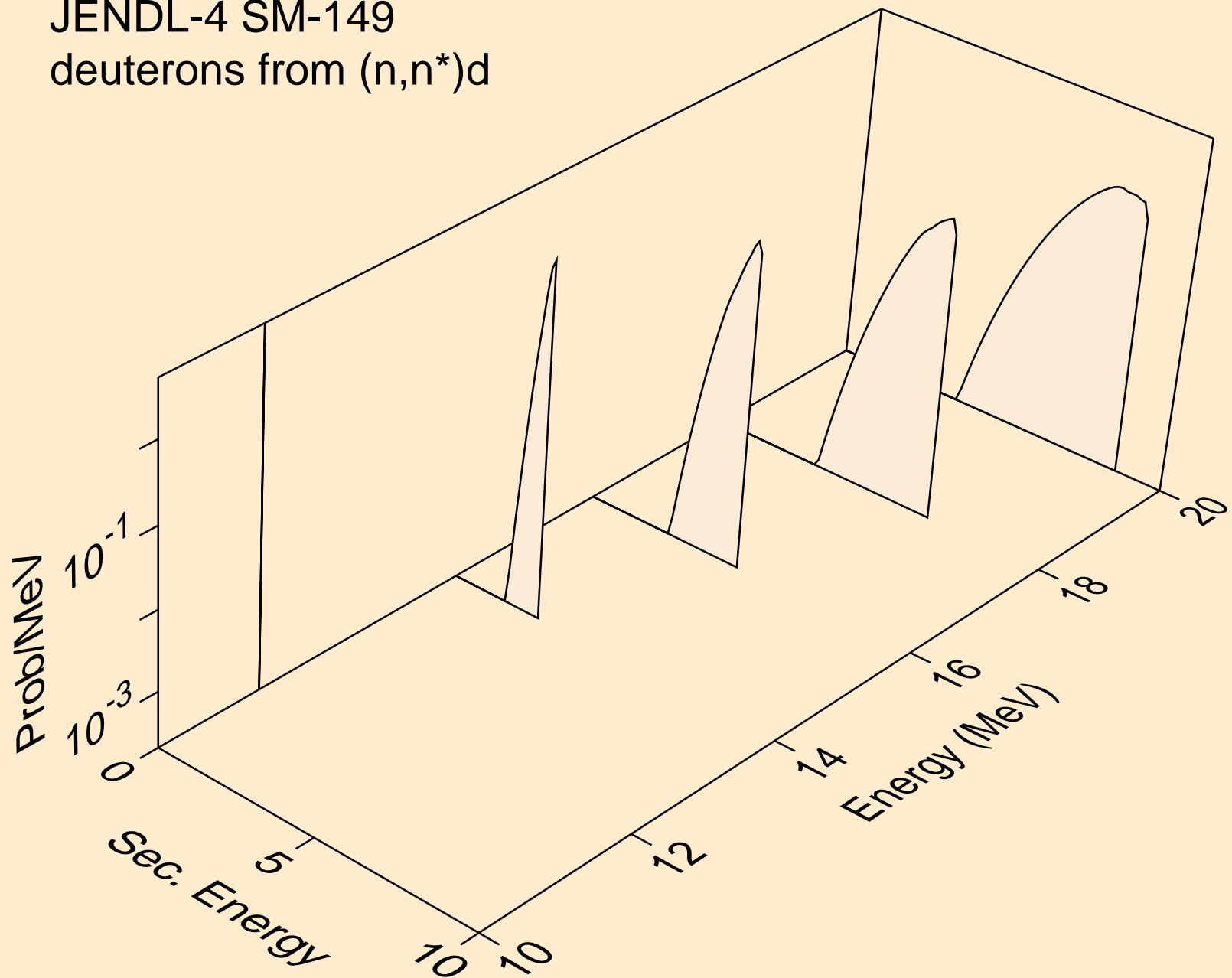
JENDL-4 SM-149  
protons from  $(n,n^*)p$



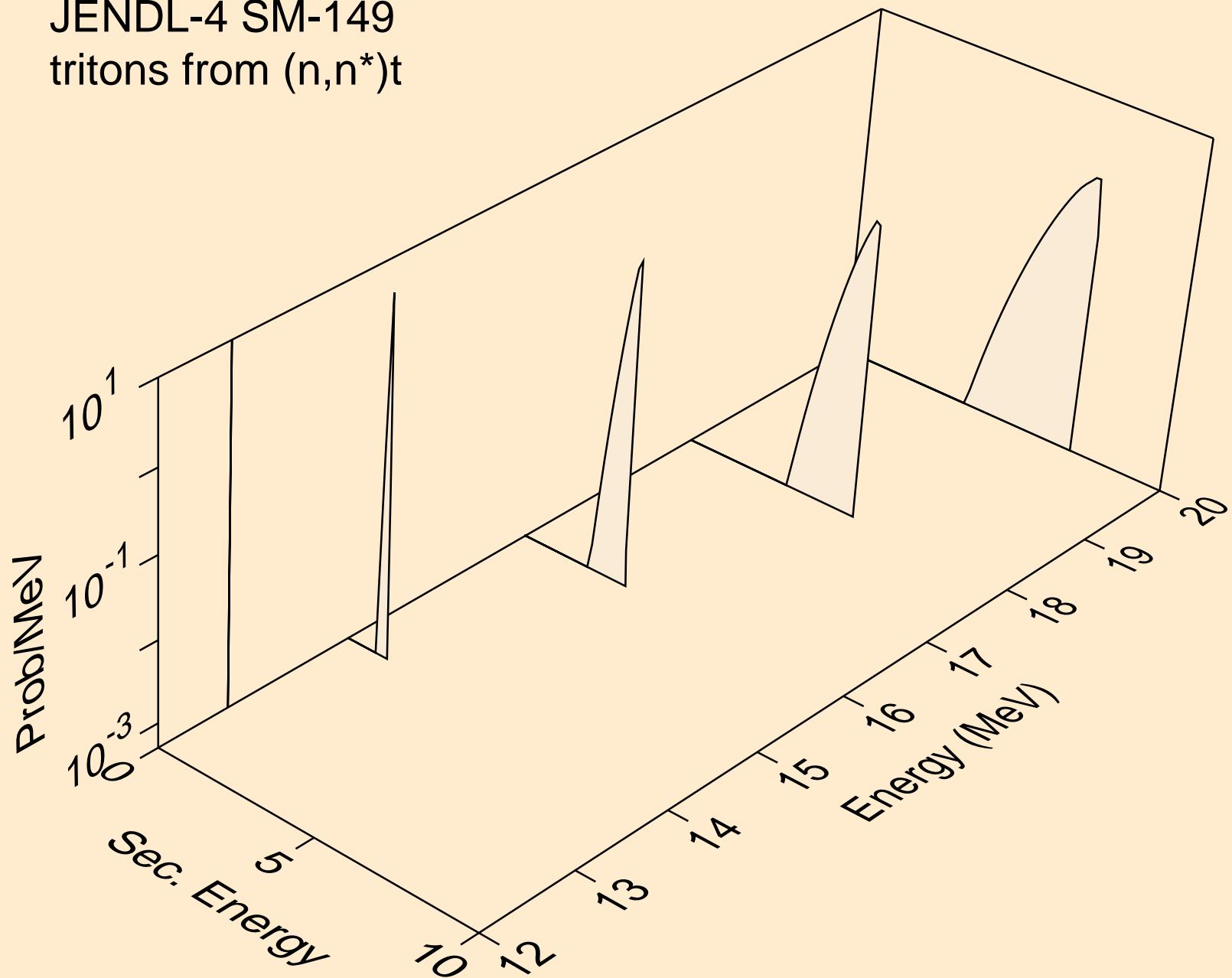
JENDL-4 SM-149  
protons from ( $n,2np$ )



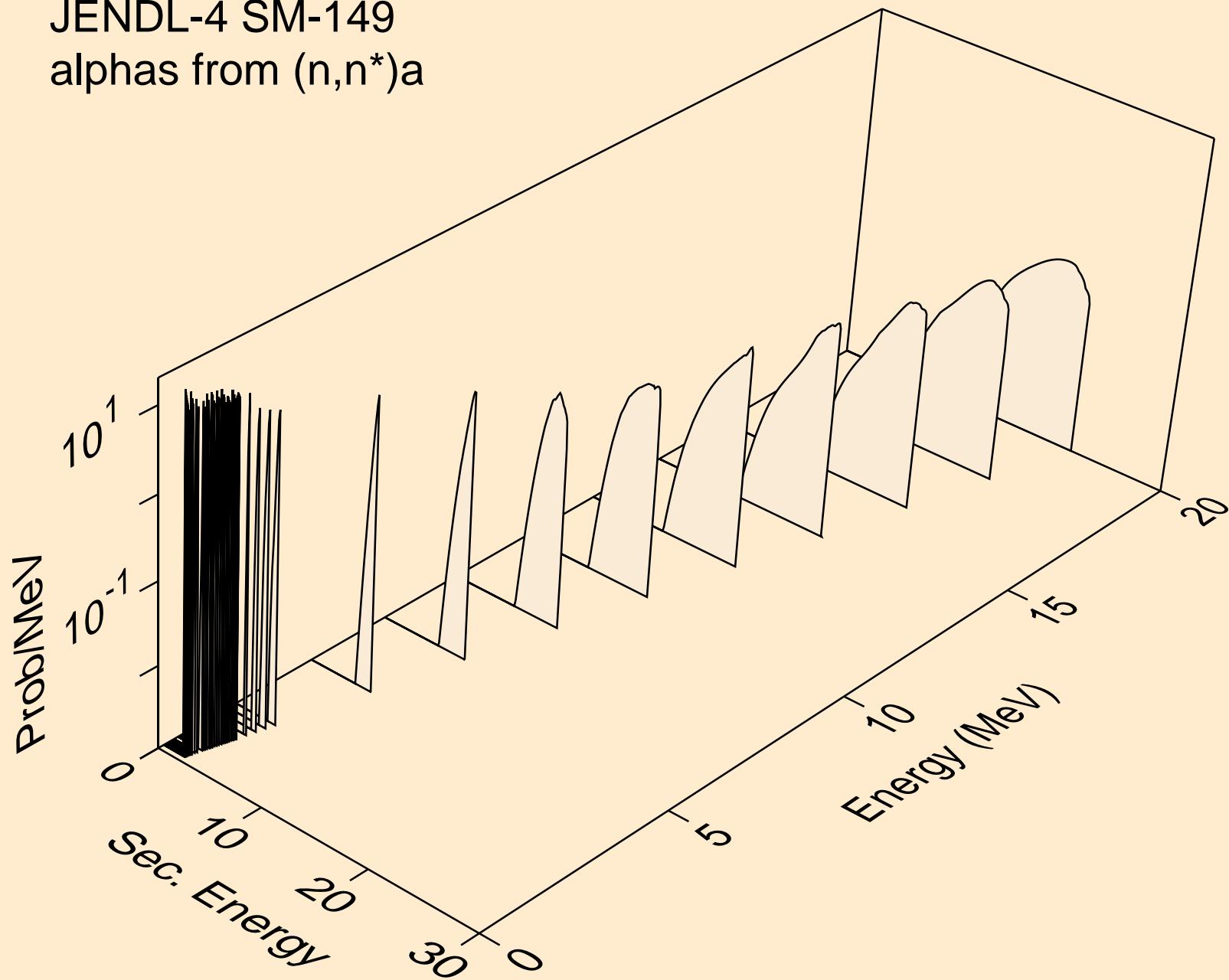
JENDL-4 SM-149  
deuterons from  $(n,n^*)d$



JENDL-4 SM-149  
tritons from  $(n,n^*)t$



JENDL-4 SM-149  
alphas from  $(n,n^*)a$



JENDL-4 SM-149  
alphas from  $(n,2n)a$

